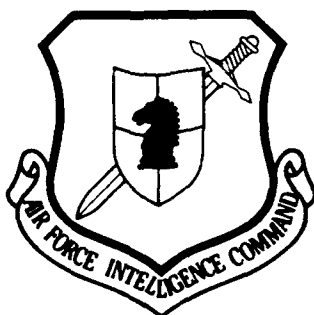


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# FOREIGN AEROSPACE SCIENCE AND TECHNOLOGY CENTER



MANUAL ON CLIMATE OF THE USSR

ISSUE 16.

ARMENIAN SSR

PART V.

CLOUD COVER AND ATMOSPHERIC PHENOMENA



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ISSUE 16.  
ARMENIAN SSR  
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PREPARED BY:

TRANSLATION DIVISION  
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TECHNOLOGY CENTER  
WPAFB, OHIO

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# U. S. BOARD ON GEOGRAPHIC NAMES transliteration SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	<i>А а</i>	A, a	Р р	<i>Р р</i>	R, r
Б б	<i>Б б</i>	B, b	С с	<i>С с</i>	S, s
В в	<i>В в</i>	V, v	Т т	<i>Т т</i>	T, t
Г г	<i>Г г</i>	G, g	У у	<i>У у</i>	U, u
Д д	<i>Д д</i>	D, d	Ф ф	<i>Ф ф</i>	F, f
Е е	<i>Е е</i>	Ye, ye; E, e*	Х х	<i>Х х</i>	Kh, kh
Ж ж	<i>Ж ж</i>	Zh, zh	Ц ц	<i>Ц ц</i>	Ts, ts
З з	<i>З з</i>	Z, z	Ч ч	<i>Ч ч</i>	Ch, ch
И и	<i>И и</i>	I, i	Ш ш	<i>Ш ш</i>	Sh, sh
Й й	<i>Й й</i>	Y, y	Щ щ	<i>Щ щ</i>	Shch, shch
К к	<i>К к</i>	K, k	Ъ ъ	<i>Ъ ъ</i>	"
Л л	<i>Л л</i>	L, l	Ы ы	<i>Ы ы</i>	Y, y
М м	<i>М м</i>	M, m	Ь ь	<i>Ь ь</i>	'
Н н	<i>Н н</i>	N, n	Э э	<i>Э э</i>	E, e
О о	<i>О о</i>	O, o	Ю ю	<i>Ю ю</i>	Yu, yu
П п	<i>П п</i>	P, p	Я я	<i>Я я</i>	Ya, ya

\*ye initially, after vowels, and after ъ, ь; e elsewhere.  
When written as ѣ in Russian, transliterate as yѣ or ѣ.

## RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	$\sinh^{-1}$
cos	cos	ch	cosh	arc ch	$\cosh^{-1}$
tg	tan	th	tanh	arc th	$\tanh^{-1}$
ctg	cot	cth	coth	arc cth	$\coth^{-1}$
sec	sec	sch	sech	arc sch	$\operatorname{sech}^{-1}$
cosec	csc	csch	csch	arc csch	$\operatorname{csch}^{-1}$

## Russian English

rot	curl
lg	log

## GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc.  
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from the best quality copy available.



MANUAL ON CLIMATE OF THE USSR.

ISSUE 16.

Armenian SSR.

Part V.

CLOUD COVER AND ATMOSPHERIC PHENOMENA.

Page 5.

PREFACE.

The "Manual on Climate of the USSR" consists of 34 issues, prepared by the administration of the hydrometeorological service for a standard program and procedure, developed at the A. I. Voyeykov Main Geophysical Observatory and affirmed by the editorial board of the GUGMS [Main Administration of Hydrometeorological Service] with the Council of Ministers of the USSR under the chairmanship of the corresponding member of the AS USSR M. I. Budyko.

Each issue of the Manual consists of five parts: part I - Solar radiation, radiation balance and sunshine; part II - Temperature of air and soil; part III - Wind; part IV - Humidity of air, precipitation and snow cover; part V - Cloud cover and atmospheric phenomena.

In issue 16, part V of the Manual, a short characterization of the conditions of cloud cover and atmospheric phenomena in the territory of the Armenian SSR is given. Part V consists of five sections: section 1 - Cloud cover, section 2 - Fog, section 3 - Snow storms, section 4 - Thunderstorms, section 5 - Hail storms. The data within all sections were processed within the limits of the period 1936-1965. The exception is section 5, for which the data were processed for the years 1891-1965.

The series of observations not only increased within the period after the appearance of preceding publications of the Manual, but the meteorological network grew considerably and was renewed. This made it possible to better illuminate the territory of the republic.

Included in part V are the materials of observations of 77 stations, represented in the form of tables, including an explanatory text for each table or group of tables, similar according to the method of processing.

The Manual is intended for a wide circle of specialists. The data of the Manual can be used to account for the effect of climate during projecting, planning and operation in different branches of the national economy.

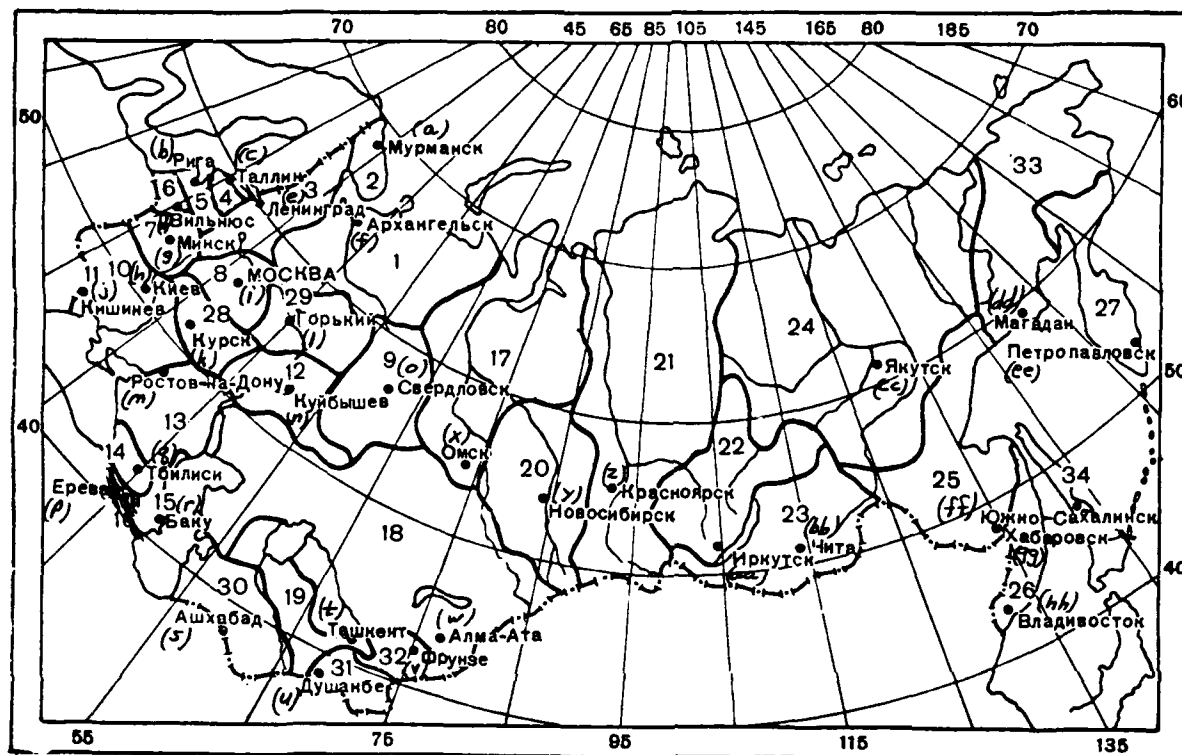
The "Manual on climate of the USSR", issue 16, part V is printed by colleagues of the department of climatology of the Yerevan Hydrometeorological Observatory. The text of section 1 was comprised by I. S. Torosyan, the texts of sections 2 and 5 - by E. L. Azatyan, sections 3 and 4 - by U. M. Virabyan.

Participating in the preparation for publication were A. V. Ramzevich, N. M. Mnatsakanyan, V. Ye. Pogosyan, V. O. Vardanyan, V. M. Karapetyan, O. S. Piloyan under the general guidance of division head I. S. Torosyan.

Systematic guidance was carried out by colleagues of the department of climatology of the GGO R. F. Sokhrinoy, N. V. Smirnovoy under general scientific methods guidance by Candidate of geographical sciences V. V. Orlovoy.

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COMPOSITE MAP OF THE ISSUES OF THE "MANUAL ON CLIMATE OF THE USSR".



Key: (a). Murmansk. (b). Riga. (c). Tallin. (d). Vilnyus.  
 (e). Leningrad. (f). Arkhangelsk. (g). Minsk. (h). Kiev. (i).  
 MOSCOW. (j). Kishinev. (k). Kursk. (l). Gor'kiy. (m).  
 Rostov-Na-Donu. (n). Kuybyshev. (o). Sverdlovsk. (p). Yerevan.  
 (q). Tbilisi. (r). Baku. (s). Ashkhabad. (t). Tashkent. (u).  
 Dushanbe. (v). Frunze. (w). Alma Ata. (x). Omsk. (y).  
 Novosibirsk. (z). Krasnoyarsk. (aa). Irkutsk. (bb). Chita.  
 (cc). Yakutsk. (dd). Magadan. (ee). Petropavlovsk. (ff). Yuzhno  
 Sakhalinsk. (gg). Khabarovsk. (hh). Vladivostok.

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#### SHORT CHARACTERIZATION OF CLOUD COVER AND ATMOSPHERIC PHENOMENA.

The territory of the Armenian SSR occupies the northeastern part of the Armenian upland with an area of 29.8 thousand km<sup>2</sup> and is characterized by very complex relief. Mountain ridges cross the territory in different directions: the Aragats massif, the Dzhavakhet and Gegam ridges have a meridian direction, the Somkhet, Bazum, Pambak, Mrovdag, Vardenis, Bargushat and Megrin ridges - latitudinal. The Areguni-Sevan ridge runs from northwest to southeast, the Zangezur ridge - from northeast to south. There are isolated peaks, small plains, basins, plateaus, river valleys and gorges, and passes. At an elevation of 1900 m above sea level there is Sevan Lake - the largest high-mountain lake of the USSR.

Elevations vary from 450 to 4096 m above sea level in the territory of the Armenian SSR, the average elevation is 1700 m.

The complex mountainous relief affects atmospheric circulation. The large Caucasian ridge delays the propagation of air masses to Transcaucasia's territory from the north, and the meridian arranged ridges of the low Caucasus are an obstacle in the path of the entry of moist western currents into the internal areas of Armenia. The predominant western transfer in the subtropical zone is strongly distorted under the action of the relief in the lower layer of the

troposphere.

The drainage network of the Armenian SSR is part of the Caspian Sea basin, 3/4 of it falls to the basin of the Araks river. It includes the Akhuryan, Kasakh, Razdan, Azat, Vedi, Arpa, Vorotan, Vokchi rivers. The basin of the Kury river includes the Debed, Agstev, Tavush rivers, etc.

In the Armenian SSR, as in any mountainous country, the vertical zonality of both the climate and the soil-plant deposit is clearly expressed.

The landscape of the Armenian SSR is peculiar, open, dry, largely stony slopes predominate, covered with bushes - juniper or shibliak. Broad-leaf forests occupy 11% of the entire territory.

In connection with the great variety of natural landscapes, there are great differences in the distribution of the characteristics of cloud cover and atmospheric phenomena in the territory in question.

Cloud cover.

Cloud cover, like other meteorological characteristics, is distributed throughout the territory of the republic unevenly.

In the mountains, the type of relief and exposure of the slopes, as well as elevation above sea level, have a great effect on cloud cover. With a rise into the mountains, cloud cover noticeably increases, moreover in the warm season, the elevation of the place is more important than the type of relief.

Condensation of water vapor depends both on the elevation of the place and on the time of year and day. In low areas, during the warm time of the year and the day, the condensation level is higher than in the mountains. In the cold season, the cloud cover is the result of the passage of cyclones, which penetrate into the territory of the republic from the Black Sea, from Turkey, and also frontal zones and occluded fronts.

Essentially, in the territory of the republic, cloudy skies predominate 7-8 months of the year, moreover, the greatest frequency of cloudy skies is noted during March - April. Clear skies predominate in the summer season.

In the northwestern areas of the republic and in the Shirak, the maximum frequency of cloudy skies is noted during January - February (Fig. 1). In spite of the higher levels of cloud cover at the headwaters of the Akhuryan river (Amasiya, Shurabad), in winter, cloud cover here is somewhat less than in Leninakan.



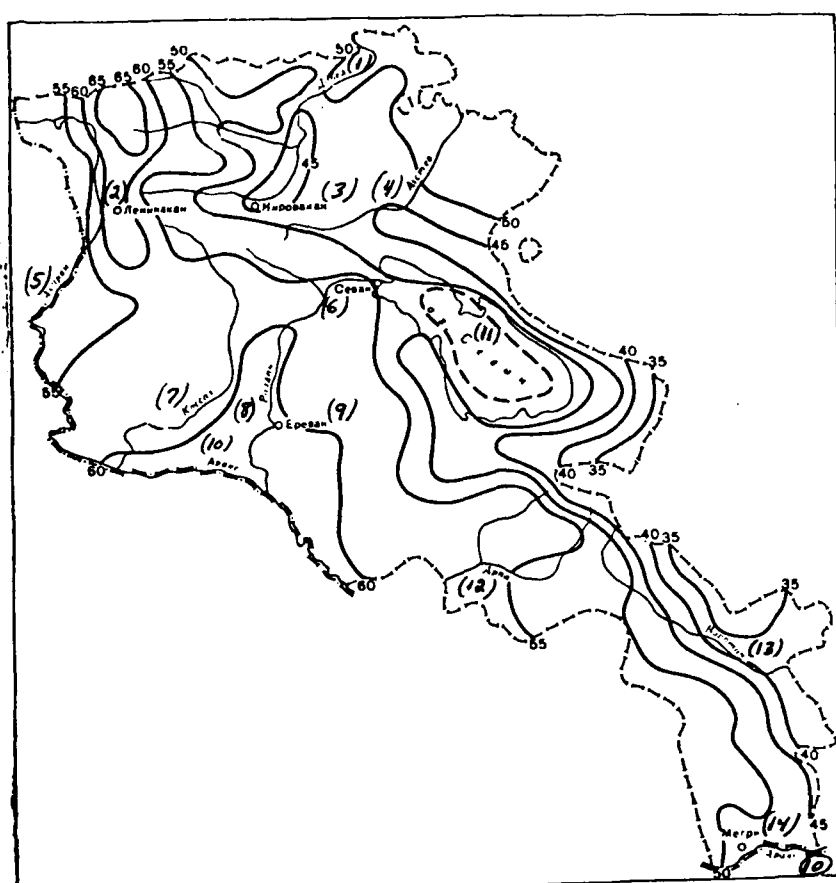


Fig. 1. Frequency of cloudy skies (8-10 balls) according to total cloud cover. January.

Key: (1). Debed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Kassakh. (8). Razdan. (9). Yerevan. (10). Araks. (11). Lake Sevan. (12). Arpa. (13). Vorotan. (14). Megri.

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This is explained by the fact that during this period, elevation of 1700 m above sea level and more are located above the inversion layer, and cloud cover is formed below. In the summer, cloud cover increases

with elevation. Clear skies are observed from June through October with the maximum during August - September (Fig. 2).

Lori-Pambakskiy and the northeastern areas of the republic are characterized by a large frequency of cloudy skies. In the Kalinins, Stepanavan, Kirovakan, Idzhevan and at other stations, throughout the year the frequency of cloudy skies predominates over the frequency of clear skies.

The maximum frequency of cloud cover of 8-10 balls is observed in this area in the spring, during March - April, and in the Kalinins - during May (Fig. 3).

Another characteristic of cloud cover is the fact that variations of the frequency of cloud cover from one month to the next are small. If in Yerevan, with a sharply continental climate, the difference between the maximum and minimum frequency of cloudy skies is 51% in total cloud cover, then in the Kalinins, where there is a moist climate, this difference does not exceed 16-17%.

Passes and mountain valleys, situated on the windward slope, and also open plateaus, are characterized by a greater frequency of cloudy skies in comparison with the leeward slope.

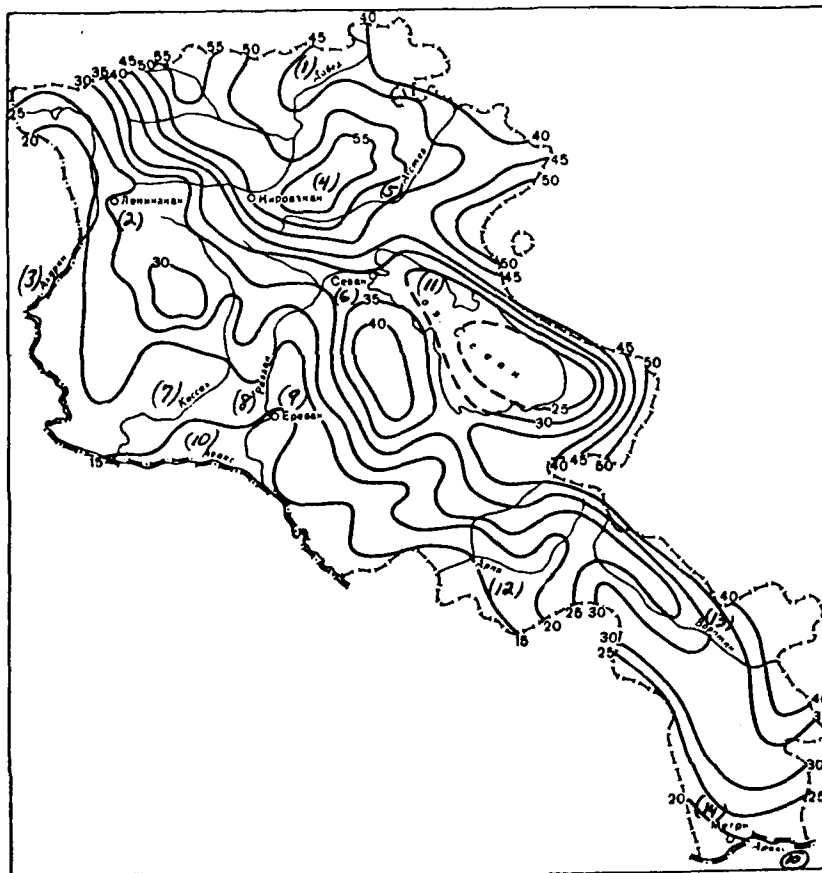


Fig. 2. Frequency of cloudy skies (8-10 balls) according to total cloud cover. July.

Key: (1). Dabed. (2). Leninakan. (3). Akhuryan. (4). Kirovakan. (5). Agstev. (6). Sevan. (7). Kassakh. (8). Razdan. (9). Yerevan. (10). Araks. (11). Lake Sevan. (12). Arpa. (13). Vorotan. (14). Megri.

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The passes and windward slope of the Zangezurskyy ridge can serve as an example.

In the month of maximum cloudy skies in the Sisian pass and in the Khotanan Verin, the frequency of cloud cover of 8-10 balls is 65-68%, while in the Sisian, located in a closed basin, 57%. At these stations (Khotanan Verin, Goris) there frequently is fog and much precipitation.

A great frequency of cloudy skies is characteristic of the high-mountain areas of the republic (high-mountain Aragats, 63%, Yeratumber 67%).

In the Ararat valley, from Oktemberyan to the east, cloud cover decreases, the frequency of clear skies increases. In Yerevan during August - September the frequency of cloudy skies is 10-13%, and clear 69-70%. For the Ararat valley, in contrast to the northern areas, a large annual range of the frequency of cloudy skies according to total cloud cover (40-50%) is characteristic.

Wind direction exerts a great effect on the distribution of cloud cover in the mountains. Fig. 4 represents the frequency of cloudy and clear skies at three stations, which are found under various conditions of location, depending on wind direction.

During the formation and distribution of lower cloud cover, the effect of relief and the presence of basins has a greater than normal effect.

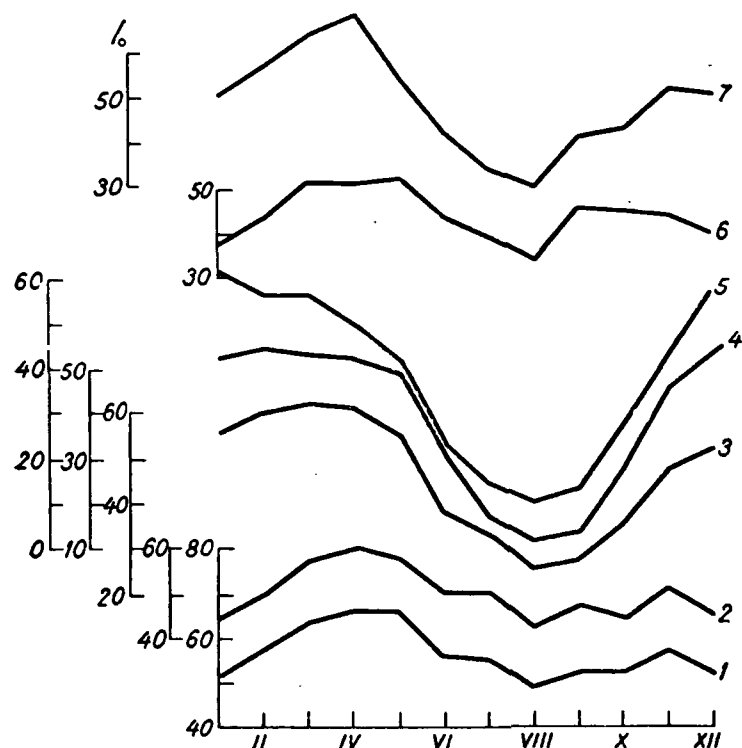


Fig. 3. Annual variation of the frequency of cloudy skies according to total cloud cover. 1 - Kalinin, 2 - Kirovakan, 3 - Sevan, 4 - Leninakan, 5 - Yerevan, 6 - Goris, 7 - Sisian pass.

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Thus, on the coast of the Lower Sevan, where the mountains closely approach the shore line, the frequency of cloudy skies (8-10 balls) according to low cloud cover during January is approximately 10% greater (Shorzha 32%, Kama 35%), than on the southern coast, where mountains are considerably distant from the coast, and the frequency of cloudy skies during January in the area of the stations of Mazry and Martuni is respectively 21 and 25%. The same is observed during July (Fig. 5 and 6).

The greatest quantity of low cloud cover is observed in the northern areas of the republic.

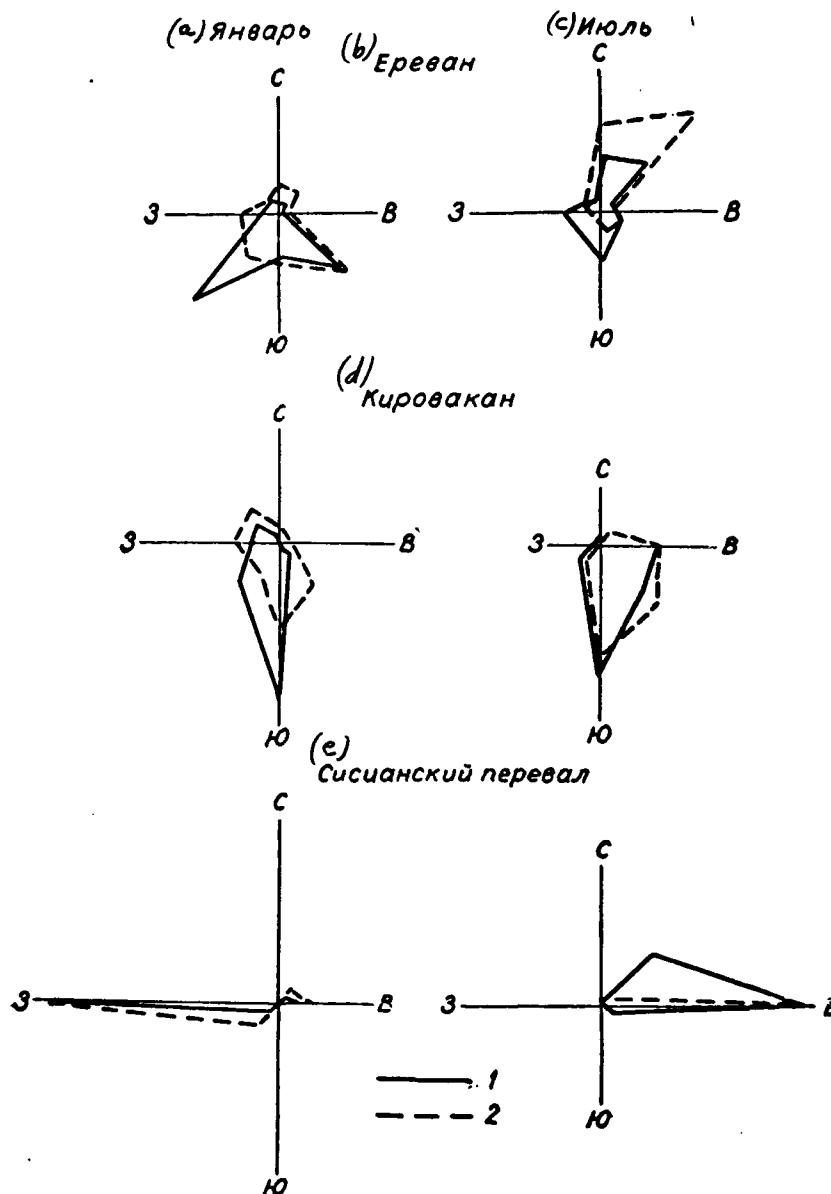


Fig. 4. Frequency of clear (1) and cloudy (2) skies with different wind directions.

Key: (a). January. (b). Yerevan. (c). July. (d). Kirovakan. (e). Sisian pass.

In Kalinin in December and January, the frequency of a gradation of 8-10 balls according to low cloud cover is minimum in annual variation, beginning in February the frequency of cloudy skies begins to increase and reaches a maximum during April - May. Beginning in May there is a noticeable decrease of cloud cover, and a secondary minimum of the frequency of cloudy skies is noted during August, after which, cloud cover again increases, reaching a secondary maximum during September - November. Cloud cover decreases beginning in November.

In the northeast, the annual range of the frequency of cloudy skies increases somewhat (16-20%). Two maximums are observed - in spring and in autumn, and two minimums - in summer and in winter (Fig. 7).

The eastern areas of Zangezur have the same annual variation of low cloud cover, only the spring and autumnal maximums are more pronounced, the annual ranges are greater (Khotanan Verin 30%).

In the northwestern areas of the republic, on the Shirak plateau and in the Ararat valley with its foothills, along the course of the Razdan and Kasakh rivers, including the high-mountain belt, the annual variation of the frequency of low cloud cover is identical.

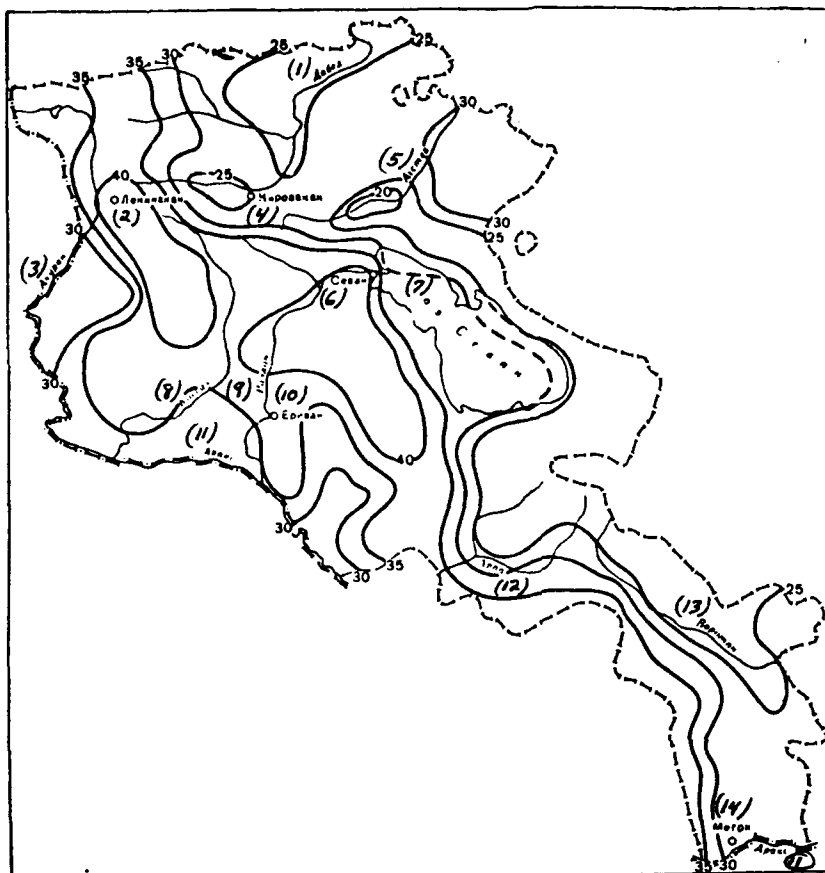


Fig. 5. Frequency of cloudy skies (8-10 balls) according to low cloud cover. January.

Key: (1). Dabed. (2). Leninakan. (3). Akhuryan. (4). Kirovakan. (5). Agstev. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.



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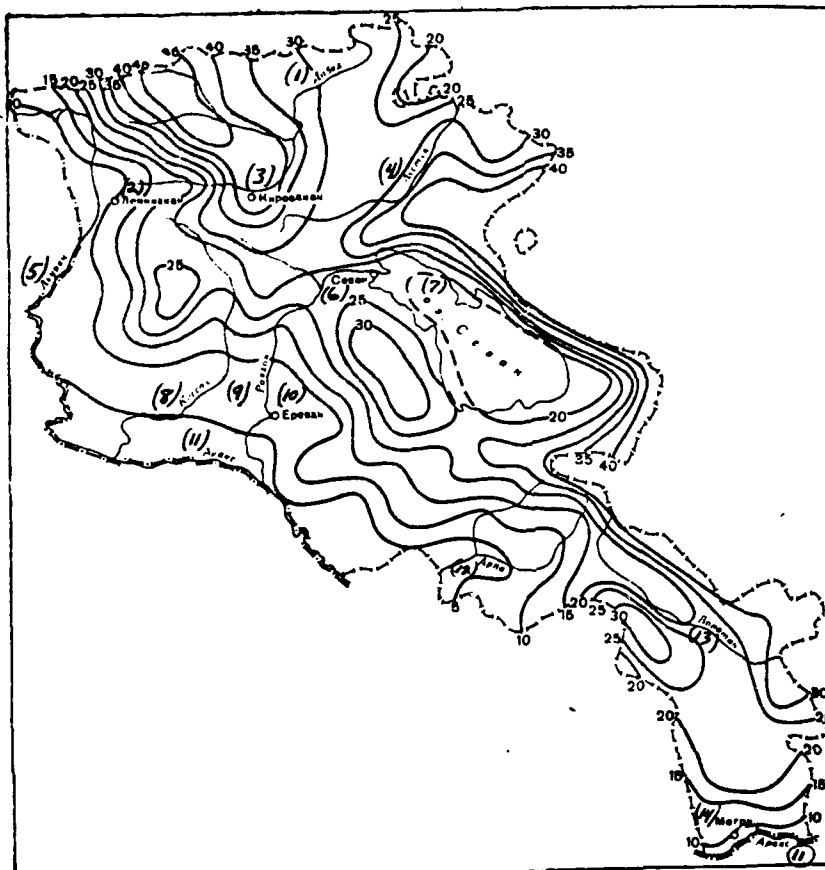


Fig. 6. Frequency of cloudy skies (8-10 balls) according to lower cloud cover. July.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

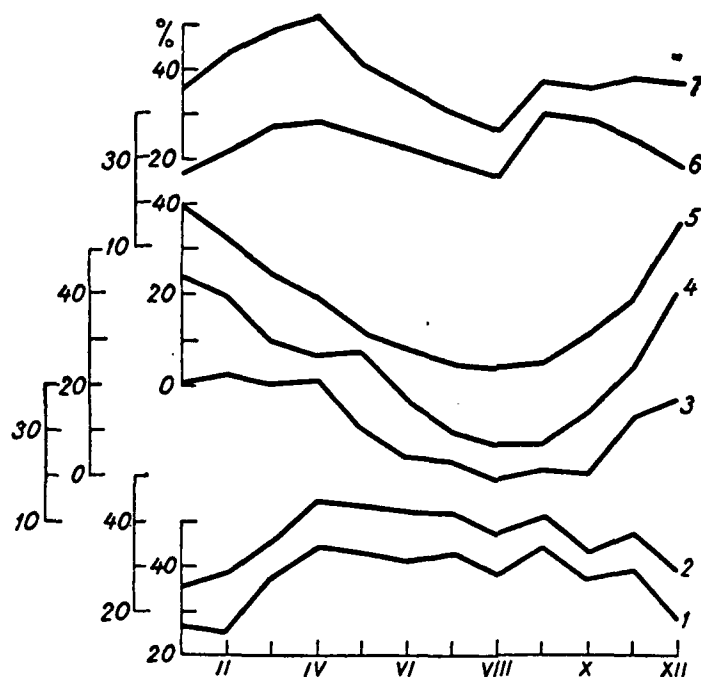


Fig. 7. Annual variation of the frequency of cloudy skies according to low cloud cover. 1 - Kalinin, 2 - Kirovakan, 3 - Sevan, GMS [Hydrometeorological Station], 4 - Leninakan, 5 - Yerevan, 6 - Goris, 7 - Sisian pass.

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The maximum frequency of clear skies according to low cloud cover is observed during August - September, the minimum in the winter period; the frequency of cloudy skies is the mirror image of clear skies - the greatest frequency occurs in the winter period, the smallest - during August - September.

Characteristic for the summer period, both for normal and for low cloud cover, is a large frequency of semiclear skies, which is

connected with the development at this time of vertical cloud cover.

The frequency of semiclear skies according to total cloud cover during June - July in the territory of the republic varies within limits of 17-30%. The smallest frequency of semiclear skies, on average 18%, is noted in the northeastern area of the republic. The greatest frequency, on average 28%, is noted in the Lake Sevan basin and in the northwestern areas of the republic, in the Ararat valley and its foothills - on average 22-25%.

Throughout the entire territory, the frequency of semiclear skies according to low cloud cover is essentially less than the frequency of clear and cloudy skies. This law is disrupted at separate stations in the summer period. Thus, at the Dilizhan station from March through September, semiclear skies predominate. During May and June, the frequency is 54 and 52%. At the Sevan GMS, during May and June the frequency of semiclear skies is 39%, which is somewhat more than the frequency of clear and cloudy skies.

Besides the annual variation, daily variations are also characteristic for cloud cover.

The northwestern area of the republic, the headwaters of the Akhuryan river and the Shirak plateau have an approximately identical daily variation of cloud cover. During January - February, the greatest cloud cover is observed in the morning hours. In spring and

from September through December, the maximum cloud cover is noted at 1300 hours, and in summer, from May through August, at 1900 hours.

In the northern and northeastern areas, daily ranges during the year are small. In the cold half of the year, the greatest cloud cover is noted in the morning and the daytime hours, while in the warm half of the year - in the evening.

In the Lake Sevan basin, in the cold half of the year, cloud cover increases in the morning and at noon, and in the evening it decreases. In summer, as in the other areas of the republic, it is the most cloudy in the evening.

In the Ararat valley in the cold months, it is very cloudy in the morning hours. In the warm season, the greatest cloud cover, connected with an increase of convection, is observed in the afternoon hours, the smallest - in the morning. In the cold half of the year, the most clear skies are noted in the evening hours.

In Zangezur, the daily ranges of cloud cover are low. An increase in cloud cover can be observed at any time of day.

At the Aragats station, high-mountain for the entire year, with the exception of May the greatest cloud cover is noted at 1300 hours. During May it is most cloudy at 1900 hours.

The distribution of cloud cover of the middle level is also closely related to the physicogeographical characteristics of the terrain (orientation of the slopes with respect to moisture-bearing winds, elevation of the place).

The greatest total average cloud cover is observed in the northern and northeastern areas of the territory, on the average of 6 balls.

In the central areas, in the Lake Sevan basin, Zangezur - on the average of 5.5 balls.

The annual minimum average total cloud cover is noted in the Ararat valley and is 4.9 balls.

The average annual low cloud cover changes in the republic within greater limits than the total.

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The greatest values it reaches in the northern areas of the republic (Stepanavan 4.9 balls), in the northeastern 4 balls, on the Shirak plateau these values vary from 3.2 (Garnovit) to 3.6 balls (Leninakan), and in the Ararat valley within the limits of 2.6-2.8 balls.

In the annual variation of both total and low cloud cover of the

middle level, one maximum and one minimum are noted. Essentially, throughout the entire territory of the republic, the maximum cloud cover of the middle level is noted in the spring, and the minimum - in the summer.

The number of clear and cloudy days substantially supplements the information about the frequency of clear, semiclear and cloudy skies, since it makes it possible to judge, to a certain degree, stability of one sky condition or another within the course of twenty-four hours.

A representation about the stability of clear or cloudy weather for total or low cloud cover can be obtained with the aid of the relationships:

$$\frac{n_{\kappa}}{P_{(0-2)}} = K_{\kappa}, \quad \frac{n_{\Pi}}{P_{(8-10)}} = K_{\Pi},$$

where  $K_{\kappa}$  and  $K_{\Pi}$  - stability factor of clear and cloudy weather in percentages,  $P_{(0-2)}$  and  $P_{(8-10)}$  - frequency of clear and cloudy skies in percentages,  $n_{\kappa}$  and  $n_{\Pi}$  - number of clear and cloudy days in percentages.

The number of clear and cloudy days is given in percentages of the number of all days in the month compared with the frequency of marks of cloud cover, also expressed in percentages of the total number of observations in the given month.

After multiplying the relations by 100, we obtain the stability

factors of clear and cloudy weather. The stability factors are given for some stations of the republic in Table I.

From the preceding information it is evident that the most stable clear weather in the northern and northeastern areas of the republic is observed in the winter, from October through March, on the Shirak plateau - from August through December, in the Ararat valley - from July through November with a maximum during August - September ( $K_n = 90 \div 92\%$ ).

Cloudy weather is the most stable in the Goris area in the autumn (stability factor 72-73%).

On the Shirak plateau and in the Ararat valley in the summer, cloudy weather is a rare phenomenon.

Table I.

Stability factor of clear and cloudy weather with respect to low cloud cover (%).

(a) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(1) Шнох . . . . .	77	73	71	63	52	65	70	71	66	76	72	76
(2) Ленинакан . . . . .	50	44	55	58	40	41	42	39	47	49	59	52
(3) Севан, ГМС . . . . .	70	57	56	50	45	54	70	75	78	87	74	81
(4) Ереван . . . . .	47	38	21	18	19	6	23	0	24	48	46	48
(5) Горис I . . . . .	57	54	59	66	49	50	64	64	65	77	77	63
	66	73	67	70	52	31	36	27	41	45	65	57
	68	74	73	71	64	74	88	90	92	83	81	76
	62	56	39	30	13	8	0	8	20	38	38	61
	76	80	67	71	54	62	76	81	73	68	72	75
	46	60	57	61	59	56	60	67	72	73	63	56

Key: (a). Station. (1). Shnokh. (2). Leninakan. (3). Sevan, GMS. (4). Yerevan. (5). Goris I.



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Thus, in Yerevan and Leninakan during July - August, the stability factor of cloudy weather is zero.

In the territory in question, the number of clear days according to total cloud cover varies from 37 (Kalinin) to 110 (Karakert). In the Ararat valley, the number of clear days per annum is on average 90-100, in the foothills 80-90 days, in Lori-Pambak 40-50 days.

The annual number of cloudy days according to total cloud cover throughout the territory varies from 77 (Martuni) to 135 (Sevkar) (Fig. 8).

The greatest number of cloudy days is characteristic for the Lori steppe, of the northeastern and southeastern areas of the republic.

In the Ararat valley, the number of cloudy days according to total cloud cover is on average 85, while in the foothills 90-100.

In the annual variation of the number of cloudy days according to total cloud cover in the territory of Armenia, two maximums are observed (Fig. 9).

In Lori-Pambak, in the northeastern and southeastern areas, one maximum is noted in the spring (March - May) and one, late in autumn (November).

In the western areas of the republic and in the Ararat valley, the first maximum is noted during March - April, the second - during December. The smallest number of cloudy days overall is noted during July - August.

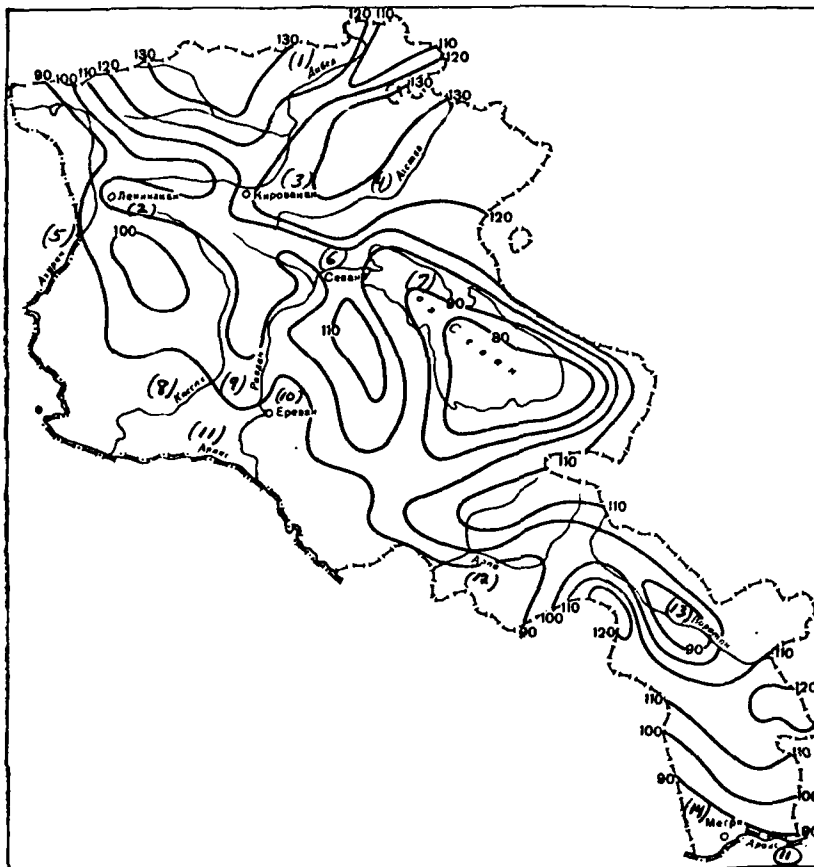


Fig. 8. Number of cloudy days according to total cloud cover. Year.  
 Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev.  
 (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9).  
 Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan.  
 (14). Megri.

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The annual variation of the number of clear days is opposite to the annual variation of cloudy days. Throughout the entire territory of the republic, the maximum number of clear days falls in August - September, with the exception of the Dilizhan, Kirovakan, Lermontov

and Krasnosel'sk regions, where the primary maximum of clear days is noted during December and January, the secondary - during September and October. With an increase in altitude at the high-mountain and mountain pass stations, the greatest number of clear days moves to September and October (high-mountain Aragats, Yeratumber, Semenovka). The smallest number of clear days in the plains territory (Ararat valley) is noted during March, in the remaining areas of the republic - during May.

The number of clear and cloudy days according to low cloud cover throughout the territory is similarly distributed.

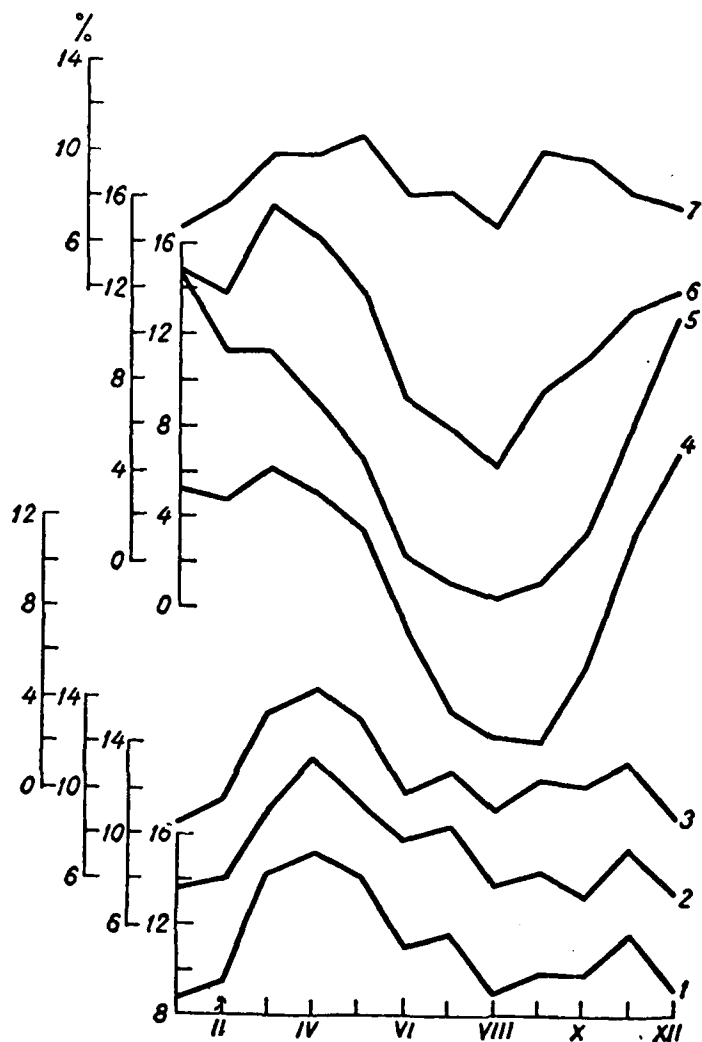


Fig. 9. Annual variation of the number of cloudy days according to total cloud cover. 1 - Kalinin, 2 - Kirovakan, 3 - Dilizhan, 4 - Leninakan, 5 - Yerevan, 6 - Sisian pass, 7 - Goris.

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The greatest annual number of clear days, as with total cloud cover, is noted in the Ararat valley (180-250 days), Lori-Pambak (80-100 Days) is the smallest in the area. At the high-mountain stations, the

number of clear days reaches 110 (Sisian pass), 117 days (Aragats, high-mountain).

The greatest annual number of cloudy days (75-85) is noted in the northern areas of the republic (Kalinin, Stepanavan), and also at high-mountain and mountain pass stations (Sisian pass, Semenovka, high-mountain Aragats). The smallest - in the Ararat valley (20-30 days) and at different low points in the relief (Mazra, Sisian) (Fig. 10).

In annual variation, the greatest number of cloudy days according to low cloud cover is observed almost everywhere in the cold season. In the western areas of the republic, and also in the Ararat valley and its foothills, the maximum number of cloudy days is noted during January - December. To the east, the maximum cloudy days shifts to the spring-autumn months. In Lori-Pambak, in the northeastern areas of the republic, in the eastern areas of Zangezur, the greatest number of cloudy days is noted during April and November, while in some areas during September.

The smallest number of cloudy days in the entire territory, with the exception of the Loriy steppe, is observed in the summer months.

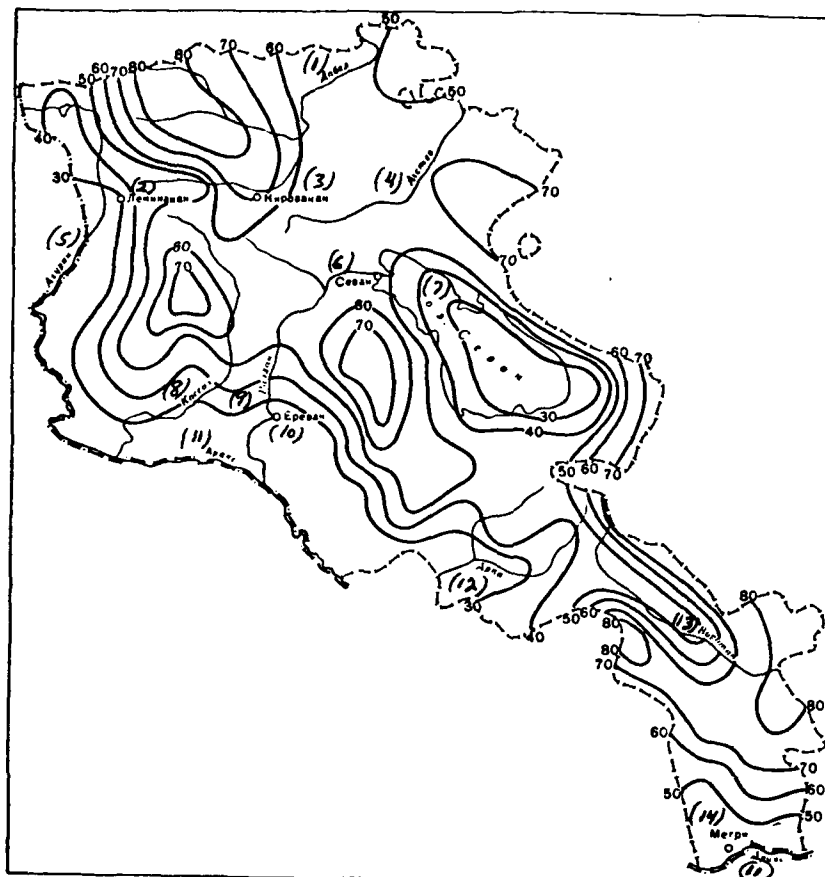


Fig. 10. Number of cloudy days according to low cloud cover. Year.  
 Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev.  
 (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9).  
 Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan.  
 (14). Megri.

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In the Kalinins and Stepanavan, 44 and 49 cloudy days respectively are observed from April through September, while in the Ararat valley, there are virtually no cloudy days during the summer season (from 0.3 to 1 days). The greatest number of clear days is observed during

August in the Ararat valley and its foothills, and also on the southern and eastern shores of Lake Sevan. There are numerous clear days during August in the northeastern areas, and also in the eastern areas of Zangezur. However, there are more of them in the indicated areas during January - December. In the Lori-Pambak area, the maximum frequency of clear days is also noted during January and December.

The types of cloud cover are essentially different depending on season (Fig. 11).

In the cold season in the republic, especially in the continental areas (Ararat valley, Shirak plateau), stratus cloud types predominate, connected with the low moisture content of air and the presence of ground inversions. The northern and northeastern areas of the republic, where cloud types do not have an expressed annual variation, are a specific exception. In the spring, with the disappearance of the snow cover and intensification of turbulent mixing, clouds of vertical development - cumulus types, increase. In the summer, when the temperatures of the soil and air are high, the condensation level is at high altitudes and relative humidity falls, clouds of vertical development are the result of the passage of cold fronts.

The frequency of various types of low cloud cover with one and the same gradation of total cloud cover in different seasons and in different areas varies strongly.



Thus, in the Lori-Pambak area, having the greatest frequency is a gradation of 8-10 balls according to low cloud cover with the same gradation of total cloud cover, especially in the warm period of the year. The frequency of clear skies of low cloud cover with 0-2 balls of total cloud cover increases in the winter.

In the Ararat valley and on the Leninakan plateau, annual variation of these combinations of cloud cover is the opposite.

Throughout the territory of the republic, the frequency of semiclear skies according to low cloud cover with the same gradation, total in annual variation, varies within small limits (6-13%) with a predominance of this combination in the summer.

#### FOG.

Fog is an accumulation in the air of very small, invisible droplets of water in such a quantity, that dampness is perceived in the air, and horizontal visibility becomes less than 1 km.

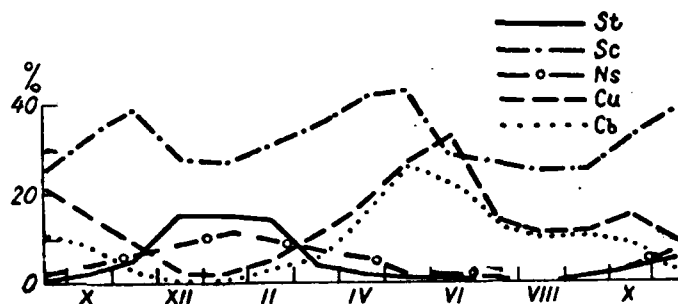


Fig. 11. Frequency of cloud cover of stratus and cumulus types for Yerevan.

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It is possible to reduce the large number of different fogs to three basic types: radiative, which appears as a result of local cooling of the air at night; advective, which is the result of the transfer of air with specific values of temperature and humidity from one region to another; mixed, or advective-radiative. Other fogs are actually special cases of the bases. For example, there are varieties of radiative fog, whose nature mainly depends on the degree of cooling and the values of humidity of the air.

Special cases of advective fogs are evaporation fog (steaming), which appear above basins as a result of the inflow of cold air from the coast, and coastal fog, which is a consequence of the transfer of humid air from a water surface and its cooling on the coast. The presence of a large number of condensation nuclei in the cities is a known stimulus for the formation of fogs, which are called urban. There are even orographic, frontal and other fogs, which, like urban,

always relate to one of the basic types. With severe frosts and high humidity, ice fog appears, which consists not of drops, but of ice crystals.

At meteorological stations, fogs are noted with a horizontal visibility of less than 1 km with subdivisions of wet dense and translucent, ice dense and translucent, evaporation and ground fog. The type of fog - advective or radiative - is not indicated.

Dense fog is a fog, in which the observer, being located in it, does not see the sky. With translucent fog above an observer, who is located in the fog, the sky is translucent or clouds are visible. Fog, which has a low layer predominantly above low-lying places and above water, is called ground fog. The height of ground fog can reach 2 m. Ground fog appears mainly in clear weather during the night and usually breaks up after sunrise.

In the "Handbook on the Climate of the USSR" data are cited about wet and ice fog, dense and with a translucent sky, and also about evaporation fog, if it appears at a station or will be carried there by the wind. Ground fog was not considered.

The distribution of fog throughout the territory of the Armenian SSR is complex. This is explained by the diversity of physico-geographical conditions and by the characteristics of atmosphere circulation.

A large role in the formation of fog of the territory in question is played by cyclonic activity, when the eastern part of the Black Sea and Transcaucasia are under the effect of a cyclone, which slowly moves to the east, and also when the republic is under the effect of the warm front of a cyclone, which passes over Turkey.

The processes of the formation of fog in mountain areas depend on elevation, the type of relief and the nature of the underlying surface, as a consequence of which, the frequency of fog and the geographical distribution of the number of days with fog is exceptionally diverse.

In the territory in question, the average number of days with fog in a year varies from 2 (Martuni, Ankavan) to 188 (Sisian pass) (Table II).

The quantity of fog increases with the elevation of the terrain.

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The most intense and prolonged fog is noted in mountain passes and in high-mountain areas, where on the average, 150 days a year with fog are observed. The increase in fog, upward along the southern slope of Aragats mountain is well outlined (Table III).

For the formation of fog in mountain areas, the affect of local

conditions, especially the vulnerability of the point, is greater than elevation of terrain. Depending on the vulnerability and openness of the station to moisture-bearing currents, the frequency of fog changes considerably.

So, in Goris and Khotanan Verin, open to eastern currents, the number of days with fog in a year is respectively 85 and 120, while at the Sisian station, located in a closed basin, only 10 altogether. The number of days with fog on a windward slope is more than on a leeward. This becomes apparent on the shores of Lake Sevan. Thus, on the Gyuney shore, closed with respect to eastern air flow, fog is considerably less (Shorzha, 4 days), than on the West coast (Kama, 38 days).

There is little fog in the Arpa river valley and in the southern areas of the Zangezur (Kafan, Megri - 11 days a year.

In the Ararat valley, the number of days with fog is on average 7-10, in the foothills of the Ararat valley 15-25. In Yerevan, fog is considerably more, up to 38 days a year, which is connected with the presence of a large quantity of active condensation nuclei (dust, particles of smoke) at this point. On the Shirak plateau and the northwestern shore of Lake Sevan, the number of days with fog in a year on average is 25-40. In Leninakan, there is more fog - 54 days. In the northern areas of the republic the number of days with fog reaches 64 (Shakhnazar).

Table II.

Number of days with fog in various types of relief.

(a) Станция	(b) Форма рельефа	(c) Число дней		(d) год
		XI—III	IV—X	
Иджеван (1)	(2) Долина	28	6	34
Ленинакан (3)	(4) Плато	53	1	54
Шоржа (5)	(6) Побережье оз. Севан	3	1	4
Камо (7)	(8) Склон	24	4	28
Ереван (9)	(10) Котловина	37	1	38
Мартуни (11)	Побережье оз. Севан (6)	2		2
Сисианский перевал (12)	(13) Перевал	97	91	188
Сисиан (14)	Котловина (10)	8	2	10
Кафан (15)	Долина (2)	9	2	11
Мегри (16)	(17) Узкая долина	4	2	6

Key: (a). Station. (b). Type of relief. (c). Number of days.  
 (d). year. (1). Idzhevan. (2). Valley. (3). Leninakan. (4).  
 Plateau. (5). Shorzha. (6). Shore of Lake Sevan. (7). Kama.  
 (8). Slope. (9). Yerevan. (10). Basin. (11). Martuni. (12).  
 Sisian pass. (13). Mountain pass. (14). Sisian.  
 (15). Kafan. (16). Megri.  
 (17). Narrow valley.

Table III.

Number of days with fog in a year on the southern slope of Aragats mountain.

(a) Станция	(b) Высота (м)	Число дней с туманом за год
Октемберян(1) . . . .	861	11
Шамиран(2) . . . .	1157	16
Кошабулах(3) . . . .	1890	60
Арагат, высокогорная(4) . . . . .	3229	156

Key: (a). Station. (b). Elevation (m). (c). Number of days with fog in a year. (1). Oktemberyan. (2). Shamiran. (3). Koshabulakh. (4). Aragats, high-mountain.

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In Lori-Pambak and the northeastern areas of the republic (Kalinin, Stepanavan, Kirovakan, to Idzhevan, etc.) in the course of an entire year, the number of days with fog varies from 8 to 51, while in the Debed basin, from 11 to 18.

There is a considerable frequency of fog at the Martiros station, where at an elevation of 1957 m, 55 days with fog are noted per annum.

In the Ararat valley, in the Aparana area, Razdan and on the Shirak plateau and also on the shores of Lake Sevan and in southern Zangezur (Kafan, Megri), the maximum fog is observed in the cold period of the year.

The greatest frequency of fog in the Ararat valley and on the Shirak plateau is noted during December and January. From May through September, fog is rarely observed, in the majority of cases not year-round.

The same distribution of fog is observed in the Razdan, Azat, Vedi and Arpa river basins, and in the south of the territory in question. In the northern and northeastern areas of the republic and in Lori-Pambak, the maximum number of days with fog comes in March and November, and there is very little fog from April through September.

The maximum fog on the eastern and southeastern shores of Lake Sevan is noted during March (1-2 days). Here, fog is a rare phenomenon, there are almost eight months without fog in the warm half of the year. On the western and northwestern shores of Lake Sevan, the maximum fog is observed from January through March and does not exceed 5-9 days, relatively less than the fog during July - September (1-2 days).

In the Semyonovskiy pass and in the Krasnosel'sk, the frequency of fog increases in the spring (during April - May, 9-10 days) and in the autumn (during September - October, 10-14 days). Here, fog is observed in all months of the year, but predominately in warm periods. Very much fog is formed in the Sisian pass. The station, located at an elevation of 2380 m, notes from 12 to 19 days with fog monthly during the year. The maximum fog comes in March and September (19



days).

In high-mountain areas (Aragats, high-mountain, Yeratumber), a considerable frequency of fog is noted from November through May (13-19 days a month). In summer (July - September), fog is observed more rarely, from 3 to 13 days. The maximum fog at these stations comes in March and April and is 18-19 days.

Essentially, in the entire territory of the republic, the maximum fog is noted in the cold half of the year, from September through March, the minimum - in the warm half, from April through September (Fig. 12).

In the winter months, advective fog, which is formed upon the entrance of a warm air mass to a cold underlying surface or with the forced rise of an air mass along a mountain slope, is observed in the majority of cases. During such processes, relief plays a decisive role in the formation of fog. Advective fog is observed in almost all areas of Armenia and carry a frontal nature.

Purely radiative fog, which appears in low-lying areas of relief, are observed in the warm period of the year (April, May). This fog has a local nature, low intensity and duration, it appears in the morning hours after sunrise and stays until 1100-1200 hours, and then it breaks up.

In the winter in the lower Sevan, it is frequently possible to see evaporation fog, which rises to a height of more than 1 m. Intense dense fog above the lake can be observed on various days only in exceptionally cold winters. Dry haze or dry fog is frequently noted in the spring and autumn above the Sevan. In high-mountain areas and in the mountain passes, it is frequently possible to encounter ice fog during severe frosts.

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The greatest number of days with fog in a year in the territory of the republic varies from 14 (Kirovakan) to 199 (Aragats, high-mountain). The annual variation of the greatest number of days with fog essentially coincides with the annual variation of their average number. The greatest number of days with fog comes during the cold period, from October through March, it is observed somewhat less from April through September. However, in the Sisian pass, in Krasnosel'sk, Shakhnazar and at the Sevan station, GMO [Hydrometeorological Observatory], fog is mostly observed during the warm period.

In different years, the number of days with fog can considerably differ from the many-year average. The greatest and smallest number of days with fog at stations, located in different parts of the territory (Table IV), can give a specific representation of the possible variations of the number of days with fog.

As can be seen from the Table, in different years, the number of days with fog in a month can reach 25-27, and fog can be entirely absent in other years.

The distribution of the duration of fog in the territory of the republic, just like the number of days with fog, is characterized by great variety. The smallest duration of fog in a year is observed in Kirovakan (27.5 hours), in the areas of Yanykh and Kafan (40 hours), in Oktemberyan (58.1 hours).

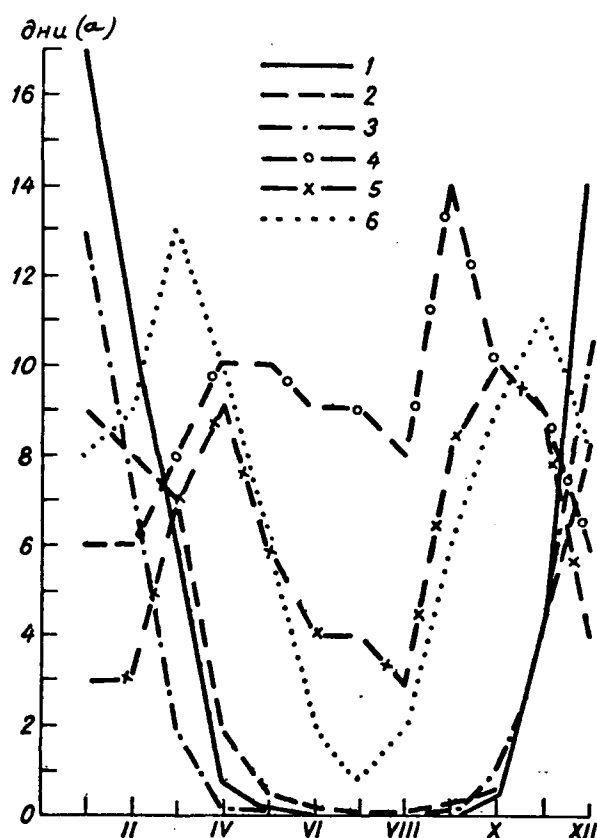


Fig. 12. Annual variation of the number of days with fog. 1 - Leninakan, 2 - Sevan, GMS, 3 - Yerevan, 4 - Semenovka, 5 - Krasnosel'sk, 6 - Goris.

Key: (a). days.

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The largest duration of fog in a year is observed in the area of Goris (822 hours), also, at the Semenovka station (813 hours).

The greatest duration of fog in the republic is noted in the cold season, from October through March. A relatively smaller duration of

fog is observed in the warm season, from April through September. The duration of fog in the warm period of the year in the Ararat valley is 1-2 hours. On the Shirak plateau, in Lori-Pambak, and also in the southern areas of Zangezur 4-6 hours, in the Sevan basin 8-14 hours. The greatest duration of fog in a year is observed during December, January, February, in places during March and October (Table V).

A considerable duration of fog in the warm period of the year is noted in areas, which are under the effect of eastern intrusions in the spring-autumn period. Thus, in Idzhevan, the duration of fog is 44.5 hours, in Krasnosel'sk 174.5 hours and in Goris 239.2 hours.

The duration of fog is great at the Semenovka station during the course of the year. The smallest duration is noted during February (40.4 hours), the greatest - in the warm period of the year. From April until September it is 442.5 hours.

The maximum duration of fog in the northern and northeastern areas, on the Shirak plateau, in the Ararat valley comes during the morning hours (between 0600 and 1200 hours), and at the Semenovka station, Krasnosel'sk and in the area of Goris - during the evening and night hours (from 1800 to 0600 hours).

The annual variation of the number of days with fog, and also the duration of the fog, change considerably depending on the conditions of the location of the point.

In the territory of the republic, the duration of fog in the cold half of the year is more stable than the warm half. This is evident from the diagrams of annual variation (Fig. 13), constructed for points, which are the most characteristic for different physicogeographical areas.

Table IV.

Average, greatest and smallest number of days with fog.

(a) Число дней	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(1) Шахназар												
Среднее (2)	3	4	6	8	7	4	3	3	7	8	8	3
Наибольшее (3)	11	14	12	20	15	15	6	11	15	17	25	9
Наименьшее (4)	0	0	0	1	1	0	0	0	0	0	0	0
(5) Берд												
Среднее (2)	7	6	8	6	3	1	0,04	0,4	2	4	7	7
Наибольшее (3)	17	17	16	15	8	5	1	5	7	12	14	16
Наименьшее (4)	0	1	1	0	0	0	0	0	0	0	1	0
(6) Семеновка												
Среднее (2)	6	6	8	10	10	9	9	8	14	10	9	6
Наибольшее (3)	18	24	18	20	24	22	16	18	26	23	20	19
Наименьшее (4)	0	0	1	0	0	3	5	0	2	3	0	0
(7) Арагац, высокогорная												
Среднее (2)	18	17	19	18	17	10	6	3	5	12	15	16
Наибольшее (3)	26	25	27	26	27	16	12	10	13	26	24	26
Наименьшее (4)	10	10	13	10	6	1	2	0	0	4	6	7

Key: (a). Number of days. (1). Shakhnazar. (2). Average. (3). Greatest. (4). Smallest. (5). Berd. (6). Semenovka. (7). Aragats, high-mountain.

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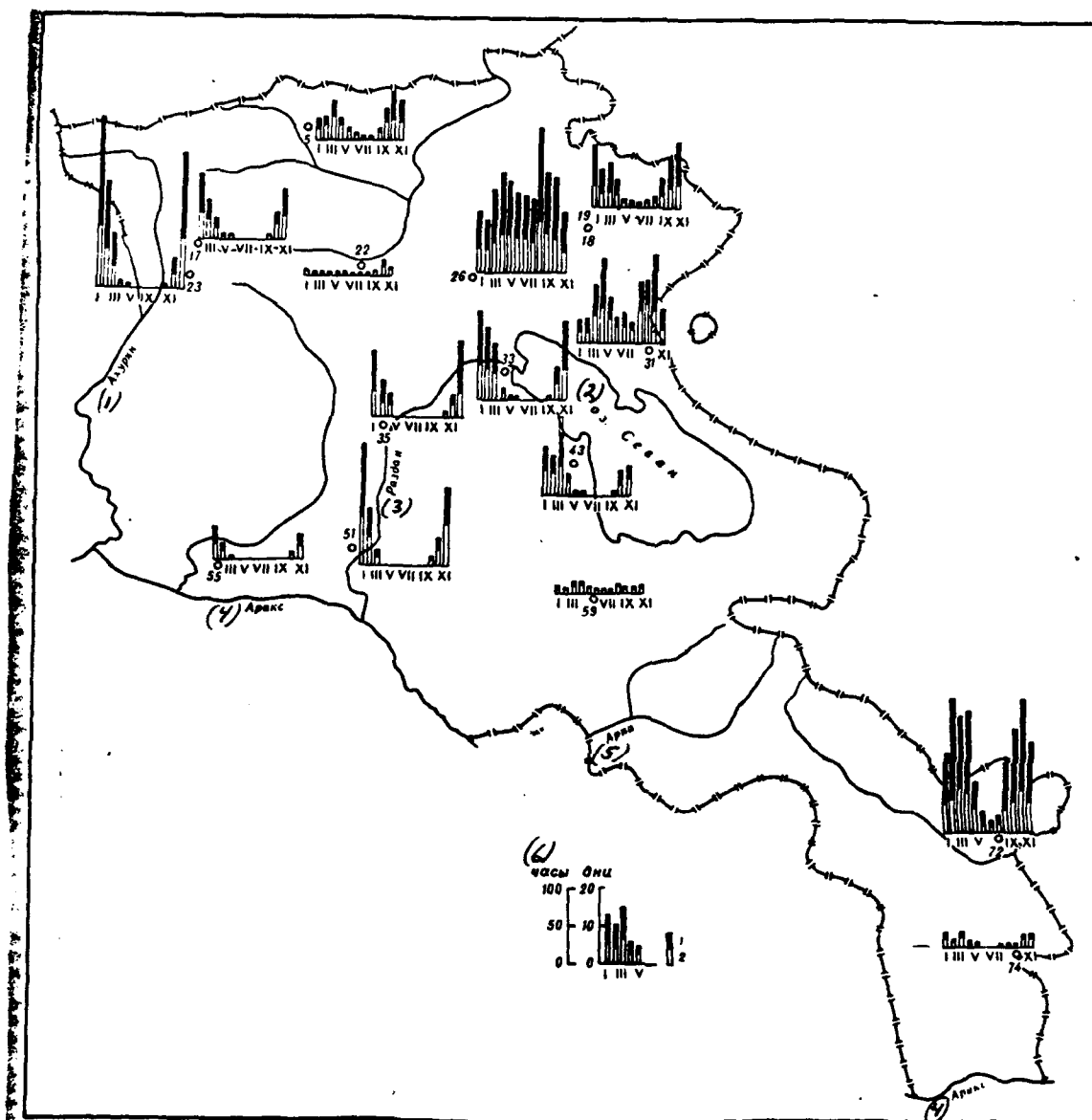


Fig. 13. Map-diagram of annual variation of the number of days (2) and duration (1) of fog.

Key: (1). Akhuryan. (2). Lake Sevan. (3). Razdan. (4). Araks. (5). Arpa. (6). hours days.

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## SNOW STORMS.

Snow storms do great damage to the national economy. They do a great deal of harm to rail and truck transport, forming large snowdrifts on the rail lines and on the highways, disrupting the movement of transport. By impairing visibility, snow storms create great difficulties in the operation of air transport. Snow storms do considerable damage to agriculture.

The redistribution of snow occurs with high winds and an unconsolidated structure of snow cover, and in fields, bare sections are created, which sometimes leads to freezing of winter crops. Sometimes snow is blown off of mountain peaks by the wind into the lowlands; here it accumulates, and in the spring when the snow thaws, the winter crops rot, they are drenched. In areas of distant-pasture cattle raising, snow storms frequently disrupt the normal pasturing of cattle.

Snow storms usually appear with the passage of a front and an increase in pressure gradients. The strongest snow storms are connected with deep cyclones, which cause considerable intensification of the wind.

Blowing snow in the territory in question appears during the movement of cyclones with cold fronts from the west and southwest to the east and northeast.

Blowing snow and drifting snow are observed at the rear of the cyclone and on the southwestern periphery of anticyclones, which are displaced in the ETS [European territory of the Soviet Union] in the Caucasus, when there is fresh dry snow cover and high winds.

Table V.

Duration of fog (hours).

(a) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X
Калинино (1)	12.8	13.4	22.7	10.9	5.6	2.9	1.3	1.5	5.3	17.6
Иджеван (2)	50.6	30.2	36.2	21.2	6.2	4.0	2.3	2.4	8.4	21.0
Ленинакан (3)	141.7	86.2	39.5	2.9	0.5	0.2		0.2		1.9
Семеновка (4)	48.9	40.4	69.1	82.7	69.5	58.8	57.4	56.1	118.1	82.5
Севан, ГМС (5)	73.2	58.5	37.7	6.4	1.2	0.2	0.01	0.1	0.2	1.2
Ереван (6)	92.8	39.5	9.9	0.7	0.2	0.6			0.1	3.7
Горис (?)	67.5	83.0	146.8	107.4	37.0	14.7	5.5	9.8	64.8	90.7

(b) продолжение

Станция (a)	XI	XII	X—III	IV—IX	(c) Год	(d) Максимум продол- жительности ту- манов	
						(e) часы	(f) месяцы
Калинино (1)	34.9	29.9	131.3	27.5	158.8	159	(8) декабрь
Иджеван (2)	42.7	59.0	239.7	44.5	284.2	195	декабрь (9)
Ленинакан (3)	18.5	106.7	394.5	3.8	398.3	354	(9) февраль
Семеновка (4)	78.6	51.0	370.5	442.5	813.0	293	декабрь (8)
Севан, ГМС (5)	21.0	65.2	256.8	8.1	264.9	237	февраль (9)
Ереван (6)	14.4	51.3	211.6	1.6	213.2	296	(10) январь
Горис (7)	118.8	76.4	583.2	239.2	822.4	302	(11) октябрь

Key: (a). Station. (1). Kalinin. (2). Idzhevan. (3). Leninakan. (4). Semenovka. (5). Sevan, GMS. (6). Yerevan. (7). Goris. (b). continuation. (c). Year. (d). Maximum duration of fog. (e). hours. (f). months. (8). December. (9). February. (10). January. (11). October.

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The most favorable conditions for the development of snow storms in the territory of the Armenian SSR are created in the presence of a Kazakhstan anticyclone and the emergence of cyclones from the south, in connection with which, an increase in pressure gradients and

intensification of the wind occurs. Blowing snow develops in the presence of snowfall.

Ground snow storms are usually observed at lower temperatures, when the snow is dry. In these cases, there is a quite small intensification of the wind so that a ground snow storm arises.

Local conditions, especially the vulnerability of the point, have a great effect on snow storms. In valleys shielded from the wind, in clearings, snow storms are observed considerably less frequently than in open places and slopes.

However, in warm valleys, where it generally snows little (the Ararat valley) independent of the type of relief and protection of the point, snow storms are rarely observed, and here the number of days with a snow storm in a year varies from 0.3 (Oktemberyan) to 1 day (Artashat).

With an increase in elevation of the terrain, the number of days with snow storms increases. In Table VI, an example of the increase in the number of days with a snow storm on the southern slope of Aragats mountain is given.

With an increase in wind speed, the number of days with a snow storm increases. Thus, on the western shore of Lake Sevan, at the Sevan station, GMS, where the average wind speed is more than 3 m/s,

26 days with a snow storm are observed in a year. Snow storm activity, besides wind speed, is also affected by thermal conditions. For example, at the Shorzha station, which is located on the warm Gyuney shore, snow cover is a rare phenomenon; therefore, although wind speeds are very large, only 6 days a year with a snow storm are observed at this station.

In mountainous areas, the distribution of the number of days with a snow storm depends on the vulnerability of the point, the type of relief, the exposure of the slopes and the elevation above sea level. In mountain valleys and gorges, shielded from the wind, snow storm activity is considerably less in comparison with the open slopes, on which the number of days with a snow storm increases with an increase in elevation. So, at the Dzhermuk station, located at an elevation of 2066 m, but enclosed on all sides by mountains, the number of days with a snow storm is 14 in a year, while at the Yanykh station, which is located at an elevation of 2334 m on an open slope, the number of days with a snow storm increases to 27 in a year.

In the territory in question, the average number of days with a snow storm varies from 0.2 (Dilizhan) to 73 (Yeratumber). The largest number of days with a snow storm in a year is observed at the high-mountain stations of Aragats, high-mountain, Yeratumber and Sisian pass, respectively 72-73 and 53 days.

Table VI.

Number of days with a snow storm in a year on the southern slope of Aragats mountain.

(a) Станция	(b) Высота (м)	(c) Число дней с метелью за год
Октемберян (1) . . . . .	861	0.3
Егвард (2) . . . . .	1317	3
Кошабулах (3) . . . . .	1890	8
Арагац, высокогорная (4) . . . . .	3229	72

Key: (a). Station. (b). Elevation (m). (c). Number of days with a snow storm in a year. (1). Oktemberyan. (2). Yegvard. (3). Koshabulakh. (4). Aragats, high-mountain.

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In the northwestern part of the republic, from 23 to 25 days with a snow storm are observed per annum. On the Ararat plain, in the forested areas (Kirovakan, Dilizhan) and in Zangezur, snow storms are very rare, from 0.2 (Dilizhan) to 2 days (Goris), but in the northeastern part of the republic, snow storms are not observed at all (Fig. 14).

The greatest number of days with a snow storm are observed during January and February, they are slightly less during March and December. During October and May, snow storms do not occur (Fig. 15).

In the entire republic, the greatest number of days with a snow storm, like the average, varies considerably. At the Aragats, high-mountain station during January, the greatest number of days with a snow storm reaches 26, in the Sevan Basin they decrease to 14-18, while in the Ararat plain (Oktemberyan, Yerevan) and in the forested areas (Kirovakan, Dilizhan) they do not exceed 1-2. During May they don't occur; however, at the Yanykh station during this month, 3 days with a snow storm are noted, and at the Aragats, high-mountain station, snow storms occur during September (7 days) and during June (4 days).

In separate years, the number of days with a snow storm can

considerably differ from the many-year average. The greatest and smallest number of days with a snow storm at stations, located in different parts of the territory over a 25-30 year period of observations (Table VII) can give a specific representation about the possible variations of the number of days with a snow storm.



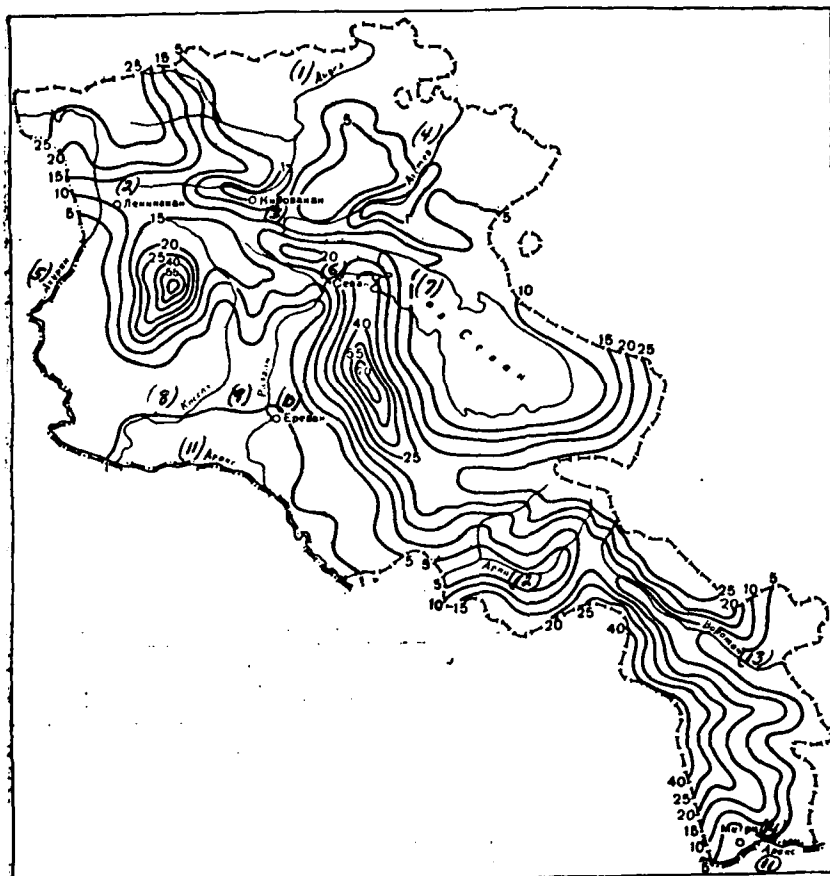


Fig. 14. Average number of days with a snow storm. Year.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

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As can be seen from the Table, at the Sevan, GMS station during February, with an average number of 7 days with snow storms, in separate years there were 16 days with a snow storm (1944), but in some years there was no snow storm observed. In various winters

(1955-56) the number of days with a snow storm reached 50, but there can be winters, when the number of days with a snow storm is only 12 (1954-55).

In connection with the great variability of the number of days with a snow storm from year to year, the frequency of the different number of days with a snow storm in separate years is of interest (Fig. 16).

For different areas of the territory from 5 to 35 days with a snow storm in a year is the most probable.

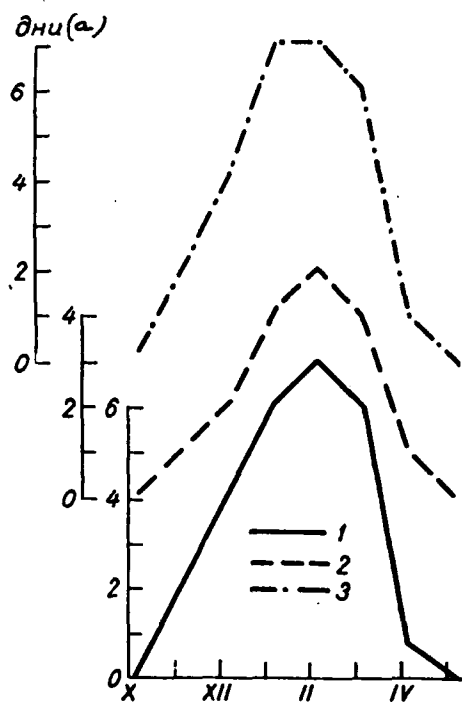


Fig. 15.

Fig. 16.

Fig. 15. Annual variation of the number of days with a snow storm. 1 - Sevan, GMS, 2 - Lake Sevan, GMO, 3 - Yanykh.

Key: (a). days.

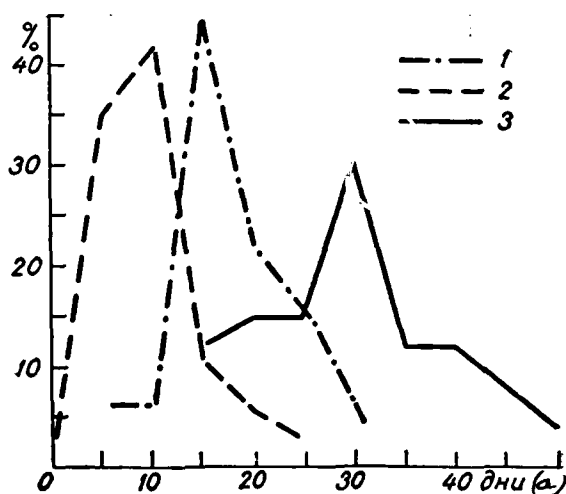


Fig. 16. Frequency of different number of days with a snow storm in a year. 1 - Dzhermuk, 2 - Koshabulakh, 3 - Sevan, GMS.

Key: (a). days.

Table VII.

Greatest and smallest number of days with a snow storm over a 25-30 year period.

(a) Число дней с метелью	X	XI	XII	I	II	III	IV	V	(б) Сумма за зиму
(1) Севан, ГМС									
Наибольшее (2)	1	8	15	14	16	13	5		50
Наименьшее (3)	0	0	0	1	0	0	0		12
(4) Яных									
Наибольшее (2)	1	8	11	16	16	19	10	3	40
Наименьшее (3)	0	0	0	0	1	0	0	0	12
(5) Мартирос									
Наибольшее (2)	1	4	13	15	14	8	2		38
Наименьшее (3)	0	0	0	0	0	0	0		8
(6) Джаджур, ж. д.									
Наибольшее (2)	1	5	5	11	11	12	6		38
Наименьшее (3)	0	0	0	0	1	0	0		6

Key: (a). Number of days with a snow storm. (b). Total for the winter. (1). Sevan, GMS. (2). Greatest. (3). Smallest. (4). Yanykh. (5). Martiros. (6). Dzhadzhur, railroad.

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The probability of less than 5 days with a snow storm is greatest in the Ararat valley at the Yerevan stations, Artashat, Yekhegnadzor, and the frequency of more than 35 days throughout the entire territory is small, from 14 (Yanykh) to 3% (Martiros). An exception is the Aragats, high-mountain station, where the number of days with a snow storm in a year is not less than 30 days with a probability of 10%.

The average number of days with drifting snow in the territory in question varies within large limits: from 49 at the Aragats,

high-mountain station to 1 in the Ararat valley (Fig. 17). The distribution of the number of days of drifting snow on the shores of Lake Sevan is dissimilar. In the area of the Sevan and Mazra stations, the number of days with drifting snow is 10 or more, but at the Martuni and Kamo stations it does not exceed 4-5.

In the Pambak valley, depending on vulnerability, the number of days with drifting snow decreases from 2 to 0.6. In the mountain passes, the number of days with drifting snow increases. If at the Sisian station there are only 2 days a year with drifting snow, then in the Sisian pass there are 13 days. In the northeastern part of the republic, drifting snow is not observed.

In the territory of the republic, the total duration of snow storms in a year amounts to 20-50 hours on the average. In low-lying protected places (Shorzha), the duration of snow storms is 14 hours, and at the Sevan, GMS station, where wind speeds are greater, the duration of snow storms sharply increases and is 174 hours a year. In the mountain passes (Yanykh station) the duration of snow storms is even greater, up to 210 hours per annum.

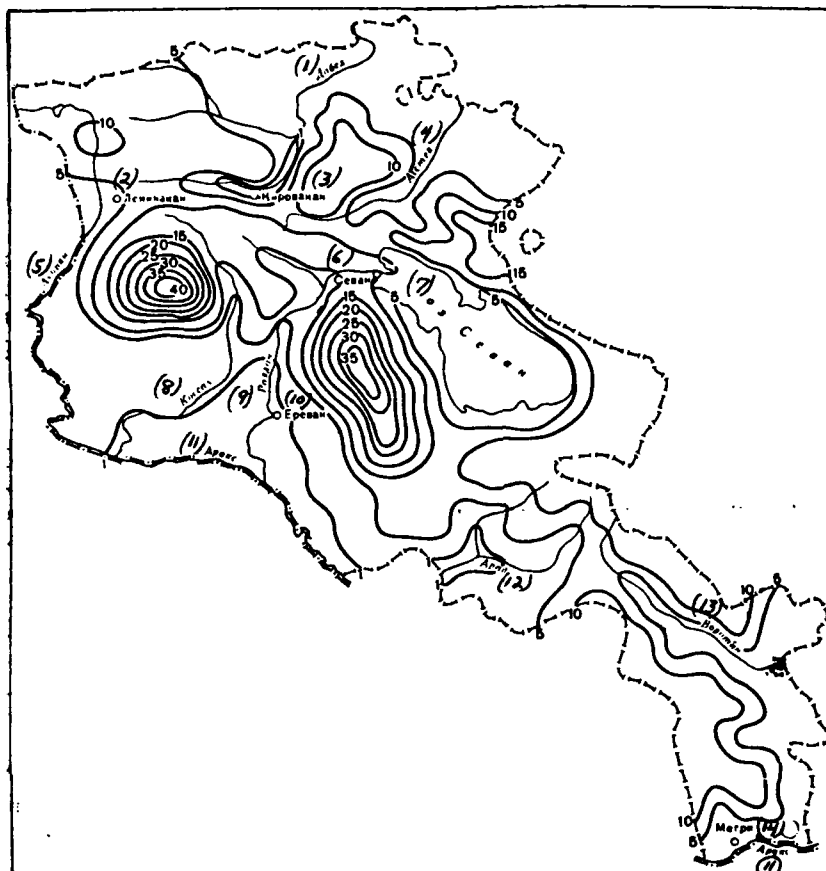


Fig. 17. Number of days with drifting snow for winter.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

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The average duration of snow storms during the day for snow storms in the entire territory varies from 2.3 to 8.1 hours.

On the western slopes of the Aragats mountain, at the Talin Verin

station, where wind speeds do not exceed 2.5 m/s, the duration of snow storms during the day is small - 3.1 hours. It is even less on the right shore of Lake Sevan (Shorzha 2.3 hours) and on the Sevan peninsula (Lake Sevan, GMO 2.7 hours). In annual variation, the greatest duration of snow storms, like the number of days with a snow storm, is observed during January and February (Fig. 18).

Also of practical importance is wind direction and speed during snow storms.

Under the effect of the orography of the terrain, at separate points the wind direction which is predominant during snow storms, can differ somewhat from the direction which is characteristic for this area. Thus, at Shorzhe, the northern and northwestern wind directions which are predominant in the winter, is northeaster during snow storms.

As an example, wind roses during snow storms are given for separate points (Fig. 19). In 30-60% of all cases, depending on vulnerability, snow storms are noted at wind speeds of 6-9 m/s. An exception are stations, located in the Ararat valley. Thus, at Oktemberyan, more than 80% of the snow storms are noted with winds  $\leq 6$  m/s. At Yerevan, the frequency of snow storms for all gradations of wind speeds from  $\leq 6$  to 17 m/s is 25%. In more open places, in 15-20% of the cases, snow storms are observed at a wind speed of 10-13 m/s, and snow storms at speeds of 14-17 m/s make up only 5-10% of the

cases. Only at stations where wind speeds are great in the winter, for example, at the Sevan, GMS station and at the Yanykh pass station, in 20-35% of the cases, snow storms occur at wind speeds of 14-17 m/s and in 3-7% at 18-20 m/s. Snow storms are rarely noted at wind speeds of more than 20 m/s. Fig. 20 gives the frequency of wind speeds during snow storms for separate points, located in different physicogeographical conditions.

There is great interest in the question of temperatures, which occur during snow storms. Snow storms at low temperatures, when snow usually yields to movement by wind more easily, are especially dangerous. During thaws, snow is condensed and loses its mobility.

The frequency of the temperature of air of different gradations during snow storms changes during winter with a change in the level of temperatures. In the territory of the republic, snow storms are most probable at an air temperature of from  $-5$  to  $-10^{\circ}$  (40-55% in a year); at the Aragats, high-mountain station, the greatest frequency (37%) of snow storms are observed at temperatures from  $-10$  to  $-15^{\circ}$ .

Snow storms are rarely observed at lower than  $-15^{\circ}$ , at temperatures higher than  $0^{\circ}$  in less than 5% of the cases. Only at the Aragats, high-mountain station and Shurabad were snow storms noted at temperatures from  $-25$  to  $-30^{\circ}$  (less than 1% of all cases). In the Ararat valley, the greatest frequency of snow storms is observed at temperatures from  $0$  to  $-5^{\circ}$ .



Fig. 21 gives the frequency of snow storms at different temperatures in February, when the frequency of snow storms is the greatest.

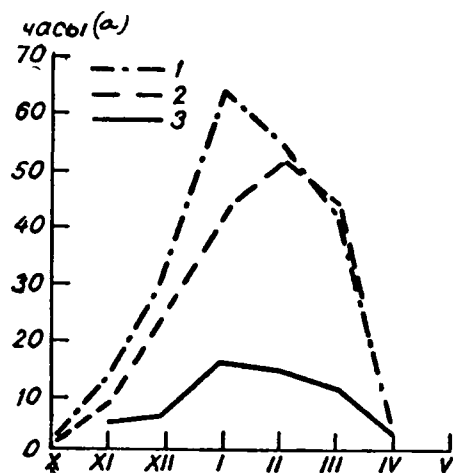


Fig. 18. Annual variation of the duration of snow storms. 1 - Yanykh, 2 - Sevan, GMS, 3 - Lake Sevan, GMO.

Key: (a). hours.

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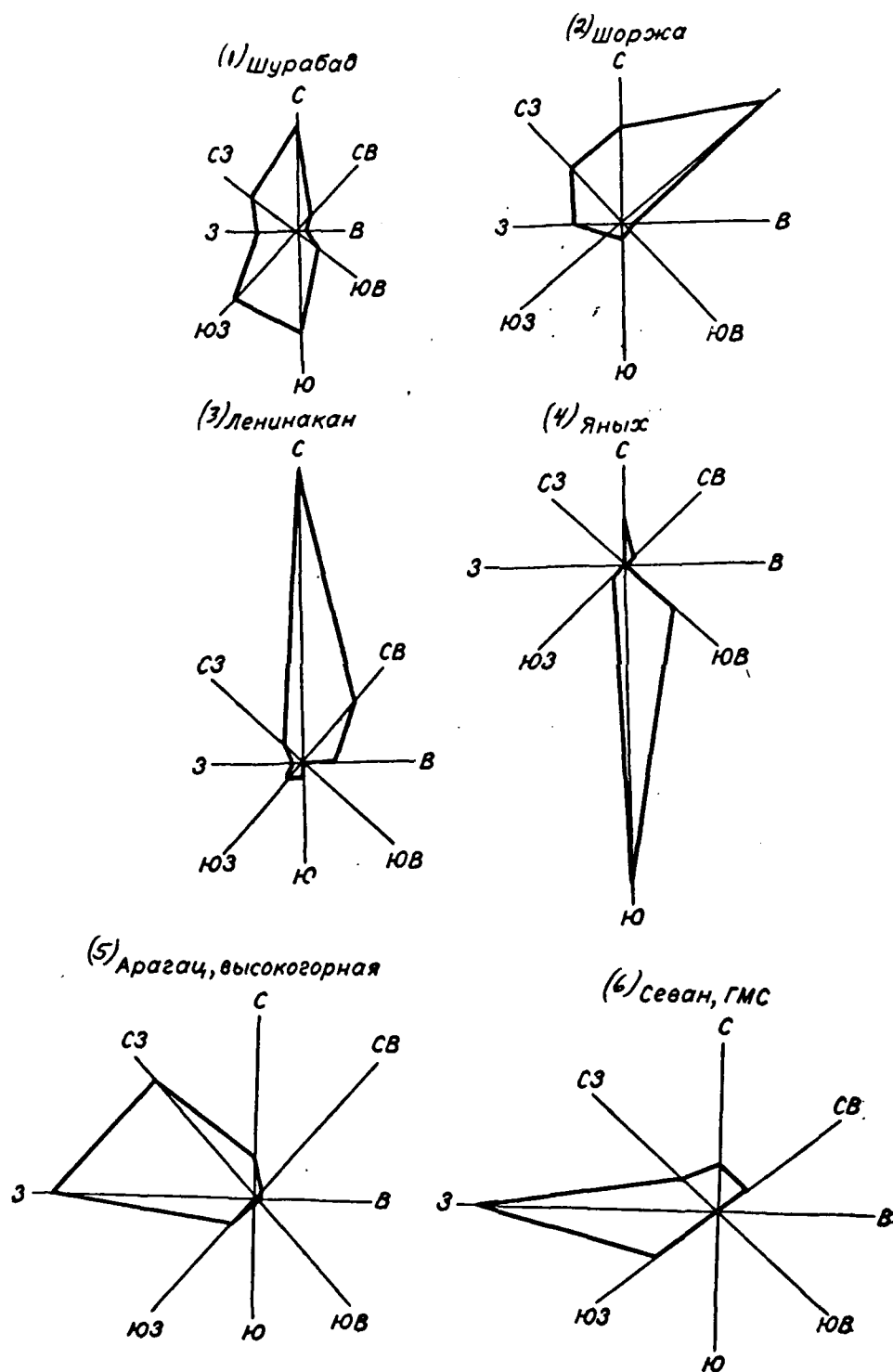


Fig. 19.

Fig. 19. Frequency of wind directions during snow storms.

Key: (1). Shurabad. (2). Shorzha. (3). Leninakan. (4). Yanykh.  
(5). Aragats, high-mountain. (6). Sevan, GMS.

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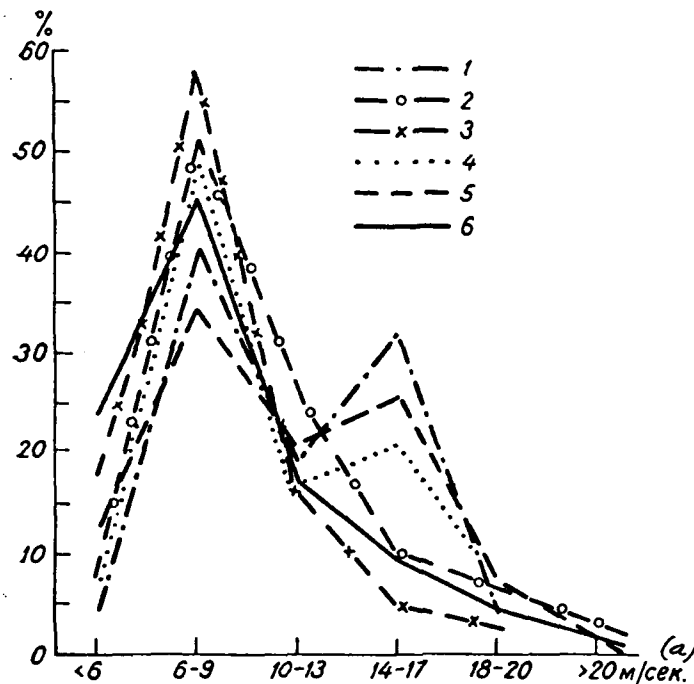


Fig. 20. Frequency of different wind speeds during snow storms. 1 - Yanykh, 2 - Aragats, high-mountain, 3 - Shorzha, 4 - Sevan, GMS, 5 - Leninakan, 6 - Shurabad.

Key: (a). m/s.

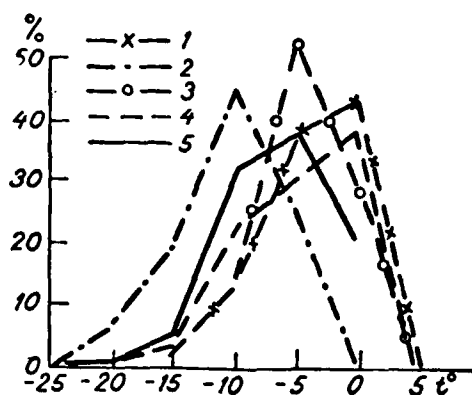


Fig. 21. Frequency of air temperature within different limits during snow storms. February. 1 - Yanykh, 2 - Aragats, high-mountain, 3 - Leninakan, 4 - Sevan, GMS, 5 - Shurabad.

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#### THUNDERSTORMS.

In the practice of the meteorological servicing of the national economy, thunderstorms are considered to be harmful, and sometimes also a dangerous meteorological phenomenon. Thunderstorms are frequently accompanied by squalls, strong showers, sometimes hail. Lightning strikes damage electrical power and communications lines, which cause major emergencies.

Thunderstorms, which are observed above Transcaucasia's territory, can be divided into two groups: air-mass and frontal.

It should be noted that in Transcaucasia's territory, the greatest frequency of thunderstorm processes are observed in Armenia.

Orography creates favorable conditions for the emergence of vertical motions of air. Convective ascending flows and downflows, which cause the emergence of air-mass thunderstorm processes, are the first type of vertical motions of air. The second type of air movement is vertical motion in cyclonic systems, which cause frontal thunderstorm processes.

According to the data of S. U. Guni, in Armenia the frequency of

air-mass thunderstorms is 14% more than frontal. Six basic types of circulation processes were isolated above the Caucasus, of which, the fourth, fifth and sixth types were characteristic for Armenia and made up 60-95% of all thunderstorm processes.

The presence above the Black Sea of a quite deep trough and intense air-mass movement from the southwest to the northeast cause the fourth type. This type is connected with a frontal zone above the eastern areas of the Black Sea and with the frequent passage of fronts above Transcaucasia's territory. With the fifth type, an upper level trough is located above the Caucasus, which contributes to the passage of fronts, while with air-mass processes, when there are no other thunderstorm-forming factors, the vertical component of wind speed appears because of the development of convection. The sixth type of circulation processes of the atmosphere is characterized by the development of a high-altitude ridge, directed from the southwestern areas of the Black Sea toward the northeast, and by the presence above the Caspian Sea of a quite deep trough. This type is a characteristic example of the formation of fronts in the southeastern part of Transcaucasia and the emergence in the eastern part of the republic of air-mass thunderstorms.

Table VIII gives a representation of the frequency of thunderstorms with different synoptic processes.

The study of the routes of thunderstorms is necessary for servicing some national-economic organizations, especially aviation.

Table VIII.

Number of days with a thunderstorm (1951-1953).

(a) Тип синоптических процессов	(b) Число дней	(c) Повторяемость, %
IV	66	39/61
V	45	45/55
VI	36	36/64

Note. In the numerator, the number of frontal thunderstorms is given, in the denominator - the number of air-mass thunderstorms.

Key: (a). Type of synoptic processes. (b). Number of days. (c). Frequency, %.

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The cells, emergent in local thunderstorms, move along a specific path, connected with the direction of ridges.

In the territory of Armenia, a local thunderstorm cell is the Bazeris ridge - a source of thunderstorms, moving in the direction of Kalinin-Stepanavan-Kirovakan.

For the section of Akstafa-Semenovka-Yerevan, local thunderstorm cells above the Gegam and Sevan ridges have a high value. The path of movement of the thunderstorms which appear here, lie along the section Idjevan-Dilijan-Semenovka-Sevan-Fontan.

The elevations are characterized by increased thunderstorm activity in comparison with the foothills, which is caused by the



intensification of vertical motion above broken ground. This is evident from Table IX.

Mountain ridges affect the intensity of thunderstorm activity even more distinctly.

The majority of thunderstorms are characterized by mountain slopes, pointed toward the predominant moist winds, since dynamic turbulence increases and updrafts, which during the rise along the slope create supplementary momentum to the formation of powerful convective currents, which in turn leads to an increase in thunderstorms.

The increase of the number of thunderstorms in the mountains is traced only to elevations of 2000-2500 m. Higher than that, thunderstorm activity weakens in connection with the general decrease in air temperature and humidity (Table X).

Thus, if at the Koshabulakh station, located at an elevation of 1890 m above sea level, 64 days with a thunderstorm are noted in a year, then at the Aragats, high-mountain station, whose elevation is 3229 m above sea level, the number of days with a thunderstorm decreases to 57. Considerable weakening of thunderstorm activity is noted in closed mountain basins. The Bazarchay and Shurabad stations can serve as an example. They are located at almost one and the same elevation (Bazarchay 2031 m, Shurabad 2004 m above sea level), but

under different conditions of location. The Shurabad station is located on an open plateau, and the number of days with a thunderstorm in a year reaches 56, while the Bazarchay station is located in more closed conditions, and therefore the number of days with a thunderstorm at this station is considerably less - 42.

A decrease of thunderstorm activity is noted on the shores of large basins, for example, Lake Sevan.

Stations, located in immediate proximity to basins (Lake Sevan, GMO, Kama, Martuni), note a decrease of thunderstorm activity in comparison with stations, which lie at a certain distance from the shores, since the conditions of the underlying water surface do not contribute to the development of convective currents and to the formation of thick cumulus cloud cover (Table XI).

Table IX.

Number of days with a thunderstorm.

(a) Станция	(b) Высота над ур. м. (м)	(c) Число дней с грозой за год
Эчминадзин (1) . . . . .	835	39
Шамиран (2) . . . . .	1157	42
Талин Верин (3) . . . . .	1582	57

Key: (a). Station. (b). Elevation above sea level (m). (c).  
Number of days with a thunderstorm in a year. (1). Echminadzin.  
(2). Shamiran. (3). Talin Verin.

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If at the Kama and Martuni stations the average number of days with a thunderstorm in a year is 48, then at Krasnosel'sk it increases to 51, at Mazra and Shorzha to 54, and at the Sevan, GMS station the number of days with a thunderstorm increases to 61.

The average number of days with a thunderstorm in a year varies according to territory from 25 (Kafan) to 67 (Kalinin, Stepanavan), the greatest number of days with a thunderstorm - from 40 (Megri) to 101 (Koshabulakh) (Fig. 22, 23).

On the Lori-Pambak steppe the average number of days with a thunderstorm in a year varies from 55 (Shakhnazar) to 67 (Kalinin), and the greatest - from 74 to 95 respectively.

In the Sevan Basin, the average number of days with a thunderstorm is somewhat less - from 48 to 60, and the greatest - from 65 to 84.

In the Ararat valley, the number of days with a thunderstorm on the average in a year is 37-50, and the greatest 60-65.

The smallest frequency of thunderstorms is noted in the eastern and southern areas of Zangezur, on the average it is less than 30 days with the greatest frequency of thunderstorms 40-50 days in a year. In the remaining areas of Zangezur, the average number of days with a thunderstorm reaches 40-45, and the greatest exceeds 60.

Thunderstorms in the territory in question are observed predominantly in the warm season. Beginning from April, the number of days with a thunderstorm gradually increases and during May - June it reaches a maximum value.

In the northeastern part of the republic, the maximum thunderstorms are noted during June (7-16 days). In the Lori-Pambak and on the Shirak plateau 12-18 days. In the Sevan Basin, the maximum thunderstorms also occur in June and reaches 9-15 days.

Table X.

Number of days with a thunderstorm for a year depending on elevation and location of the station.

(a) Станция	(b) Высота над уровнем моря (м)	(c) Число дней с грозой		(f) Местоположение станции
		(d) среднее	(e) наибольшее	
(1) Арташат . . . . .	829	36	59	(2) Юго западный склон Гегамского хребта
Ереван (2) . . . . .	910	37	57	
Чиманкенд (3) . . . . .	1064	46	70	
Гарни (4) . . . . .	1422	48	60	
Фонтан (5) . . . . .	1798	52	79	
Ератумбер (6) . . . . .	3101	46	65	
Октемберян (8) . . . . .	861	38	57	(13) Южные склоны Арагатского массива
Аштарак (9) . . . . .	1090	40	68	
Егвард (10) . . . . .	1317	50	65	
Кошабулах (11) . . . . .	1890	64	101	
Арагац, высокогорная (12) . . . . .	3229	57	90	

Key: (a). Station. (b). Elevation above sea level (m). (c). Number of days with a thunderstorm. (d). average. (e). greatest. (f). Location of station. (1). Artashat. (2). Yerevan. (3). Chimankend. (4). Garni. (5). Fontan. (6). Yeratumber. (7). South western slope of Gegam ridge. (8). Oktemberyan. (9). Ashtarak. (10). Yegvard. (11). Koshabulakh. (12). Aragats, high-mountain. (13). Southern slopes of the Aragats massif.

Table XI.

Number of days with a thunderstorm in a year depending on the location of the station with respect to a basin.

(a) Станция	(b) Число дней с грозой	
	(c) среднее	(d) наибольшее
(1) Севан, ГМС . . . . .	61	84
Севан, озерная ГМО (2) . . . . .	47	66
Камо (3) . . . . .	48	67
Мартуни (4) . . . . .	48	65
Шоржа (5) . . . . .	54	67
Мазра (6) . . . . .	54	74
Красносельск (7) . . . . .	51	67

Key: (a). Station. (b). Number of days with a thunderstorm. (c). average. (d). greatest. (1). Sevan, GMS. (2). Lake Sevan, GMO. (3). Kama. (4). Martuni. (5). Shorzha. (6). Mazra. (7). Krasnosel'sk.

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On the Aragats massif, the number of days with a thunderstorm during June does not exceed 15. In the Ararat valley, the maximum thunderstorms occur in June and May (9-13 days), at Zangezur, the greatest number of days with thunderstorms is observed during May and is 6-9 on average. Beginning from August, the number of days with a thunderstorm gradually decreases and in the entire republic during September, October they do not exceed 7-6. The smallest number of days with a thunderstorm is noted in the winter - less than 1 day per month (Table XII).

As can be seen from the Table, in the winter months,

thunderstorms are rarely observed.

Fig. 24 gives the annual variation of the average and greatest number of days with a thunderstorm for separate points.

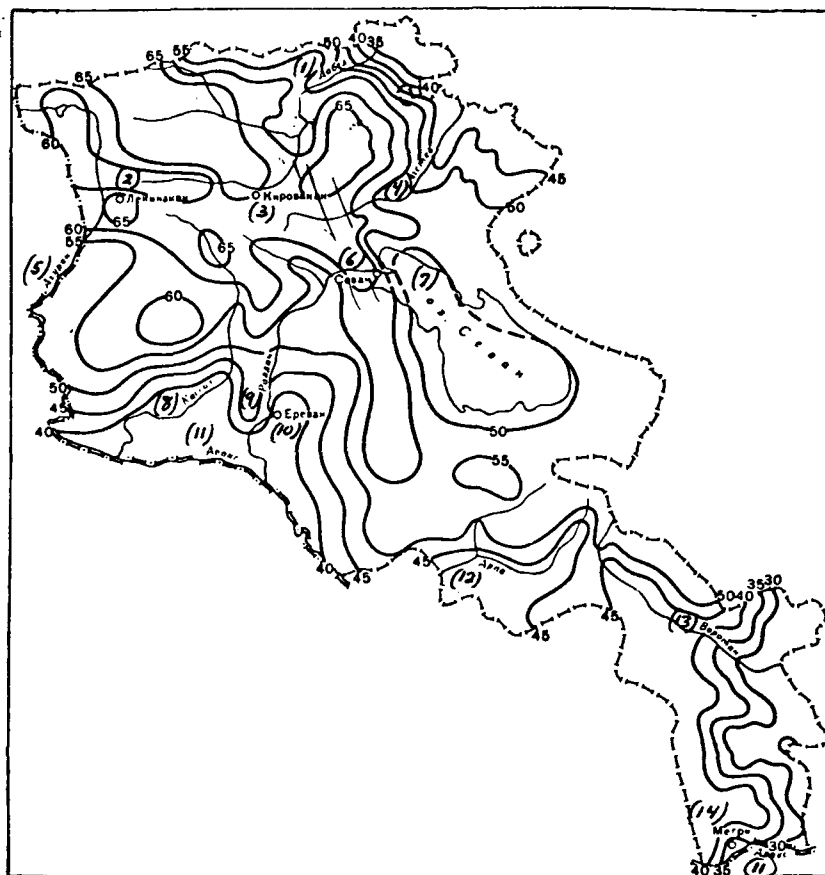


Fig. 22. Average number of days with a thunderstorm. Year.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.



Table XII.

Number of days with a thunderstorm in the winter months during the period 1936-1965.

(a) Станция	XII	I	II
(1)			
Арарат . . . . .	0.01	0.03	0.3
Ехегнадзор (2) . . . . .	0.05	0.09	0.2
Арени (3) . . . . .	0.05	0.07	0.2
Базарчай (4) . . . . .	0.2	0.2	0.3
Мартирос (5) . . . . .	0.1	0.1	0.2
Сисианский перевал (6) . . . . .	0.1	0.1	0.3

Key: (a). Station. (1). Ararat. (2). Yekhegnadzor. (3). Areni.  
 (4). Bazarchay. (5). Martiros. (6). Sisian pass.

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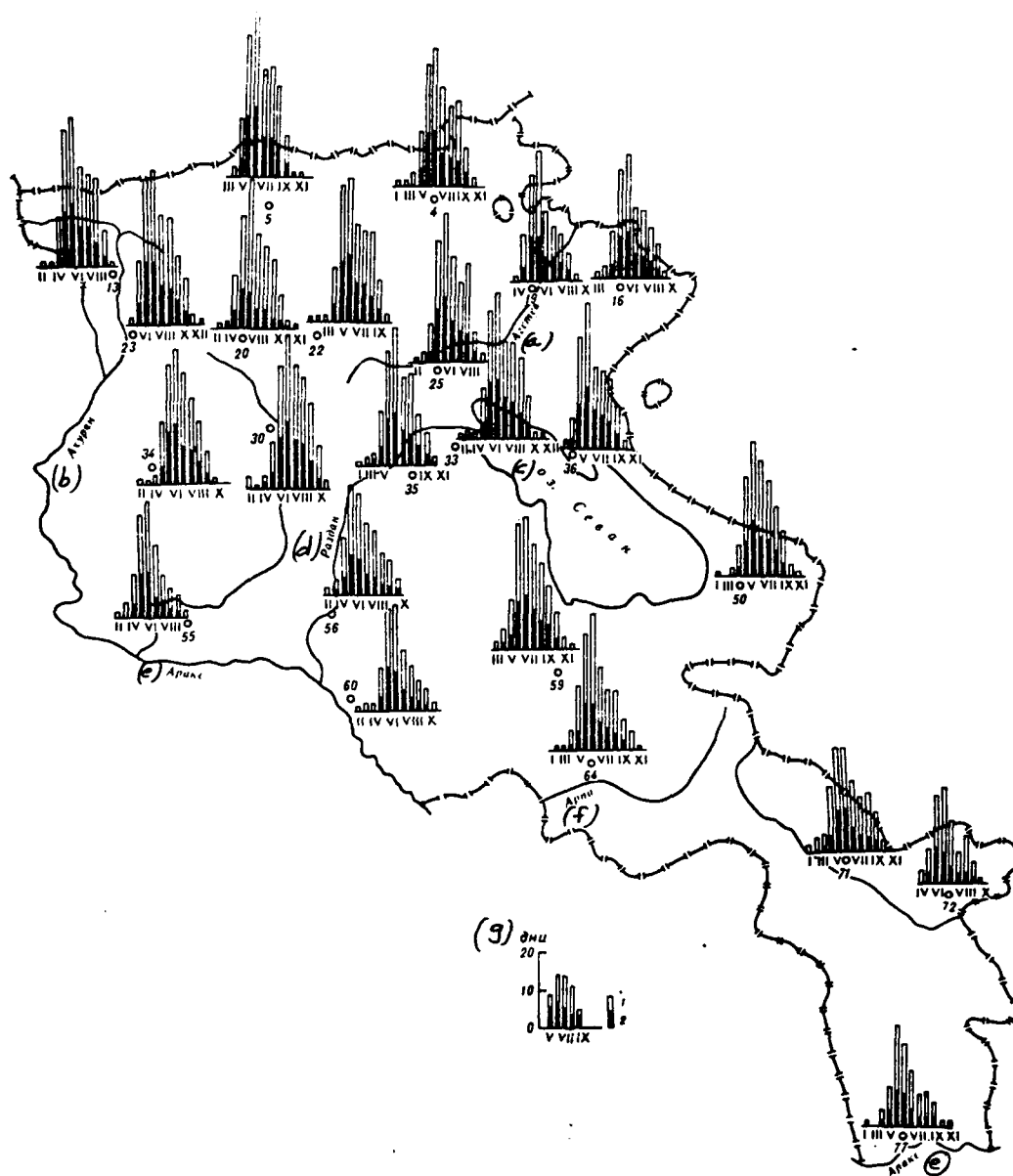


Fig. 24. Map-diagram of annual variation of the average (2) and greatest (1) number of days with a thunderstorm, (greatest number of days with a thunderstorm is counted from the upper boundary of the average number of days).

Key: (a). Agstev. (b). Akhuryan. (c). Lake Sevan. (d). Razdan.

(e). Araks. (f). Arpa. (g). days.

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Besides the average and greatest number of days with a thunderstorm, the average total duration of thunderstorms in a month and the duration of thunderstorms at different times of day also presents interest. In the entire territory, with the exception of Zangezur (Megri, Goris), the greatest average total duration of thunderstorms in a month is observed during June, and in Zangezur during May. The duration of thunderstorms in Leninakan and Kirovakan during June reaches 42 hours, in the remaining areas of the republic varies from 24 (Krasnosel'sk) to 38 hours (Aparan). In the Ararat valley (Yerevan, Artashat) and in the Zangezur the greatest duration of thunderstorms during May - June is 10-16 hours.

The greatest continuous duration of individual cases of thunderstorms in the Sevan Basin from July through August can reach 10-17 hours in a row (Mazra, Kama, Sevan, GMS). At the Dilizhan station, thunderstorms sometimes continue for 20 hours (on 28 May, 1946).

The average duration of a thunderstorm during the day, for thunderstorms in the entire territory, varies from 0.9 hours (Artashat) to 2.4 hours (Yekhegnadzor).

In the majority of the territory in question, thunderstorms are

most frequently prolonged in the afternoon hours - between 1200 and 1800 hours. At the Yerevan and Goris stations, the most prolonged thunderstorms are observed between 1800-2400 hours.

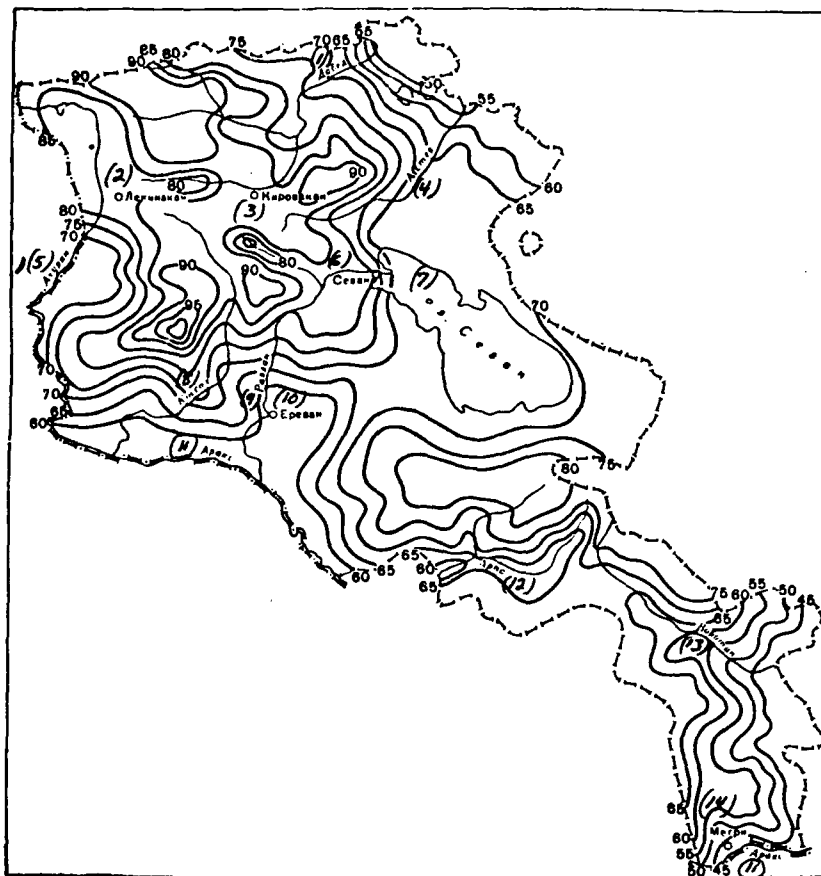


Fig. 23. Greatest number of days with a thunderstorm. Year.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

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HAIL.

Hail can do great damage to the national economy. Agricultural

fields and gardens, especially in the flowering period, mainly suffer from hail.

Knowledge of the geographical distribution of hail and the intensity of its precipitation in separate areas makes it possible to undertake some measures, which decrease losses from hail damage. This is especially important for spring and the beginning of summer.

Hail is observed predominantly in the warm half of the year and usually falls on the terrain in spots. A hailstorm is accompanied by showers, thunderstorms and sometimes by gusty winds. In areas where cattle raising is important, precipitation of large hail can lead to the death of small cattle.

According to the data of the hail-defense group of the Armenian SSR, on 2 May, 1959, at 1330 hours in the Oktemberyan area and its vicinity, a heavy hailstorm passed through (individual hailstones were bigger than a nut). As a result of hail damage, more than 1000 HA of separate agricultural crops were destroyed, gardens and vegetable-gardens suffered, and 286 head of sheep were killed.

In 1967 on 18 and 20 August, intermittently a heavy hailstorm passed through, as a result of which, great damage was done to the fields in the Shamshadin area. Here up to 2115 HA of agricultural crops were damaged. During these days, heavy hail damage was also observed in Oktemberyan, Talin and its vicinity, where gardens and

vegetable-gardens strongly suffered.

On 18 August, 1967, the territory of the republic was under the effect of a field of reduced pressure (Fig. 25).

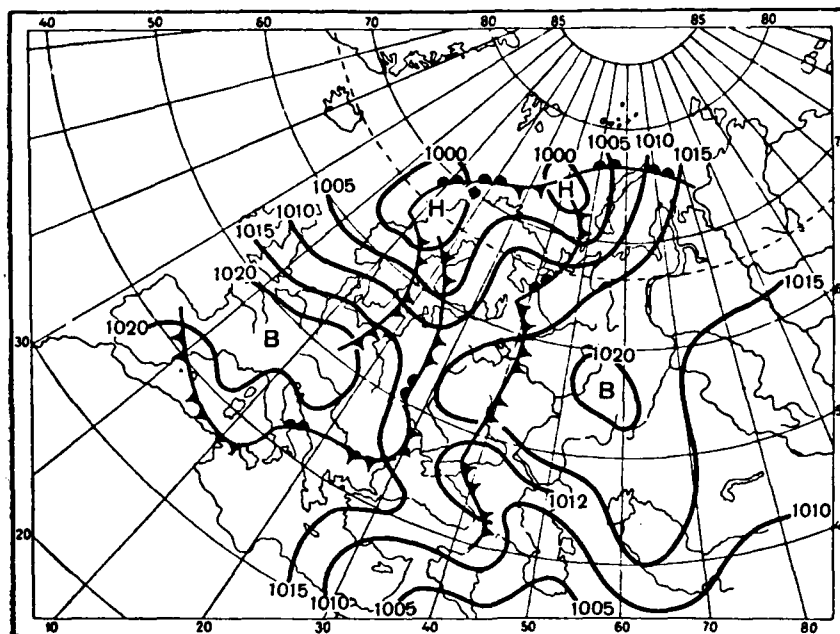


Fig. 25. The case of the hailstorm on 18 August, 1967.

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Cyclonicity was observed altitudes. Beginning from the second half of the day, a cold front, connected with the cyclone, whose center was located in the Rostov area, extended into the territory of the republic. Contributing to the intensification of the process and to the hailstorm in many areas of the republic were large rising currents, high humidity and unstable stratification of the air. On 20 August, hail of an air-mass nature was observed, also connected with large rising currents, unstable stratification and high humidity of the air.

Contributing to the development of thick cumulonimbus cloud cover



and to the formation of hail is high humidity in a considerable layer of the troposphere, sharp temperature differences at elevations, and also conditions of orography, which cause the development of vertical motion.

Elevations, mountains, and large basins have a great effect on increasing or decreasing the number of cases of hailstorms. Under plains conditions, even small elevations cause an increase in the number of cases of a hailstorm. In the foothills and mountain areas, this effect increases, since the development of an updraft before the obstructions contributes to an increase in turbulence in the surface boundary layer and, therefore, convective cloud cover.

In spite of large material losses, caused by hail, its genesis, has until now, been insufficiently studied.

Hail damage in Armenia is essentially connected with two types of aerodynamic processes: 1) with processes of a frontal nature from the west, 2) by air-mass processes.

Frontal processes from the west are characterized by the presence of an upper-level frontal zone above Asia Minor, which moves toward Transcaucasia. In rare cases, a hailstorm in the northeastern and southeastern areas of the republic is connected with the passage of cold fronts from the east.

Intensification of convection and high humidity in the spring-summer period is characteristic for air-mass hail.

The great variety of physicogeographical conditions and orography cause considerable differences in the number of days with hail in the territory (Fig. 26) in question. Hail is least observed in the republic in the Ararat valley, especially in the arid areas of Arazdayan and Areni, where the number of days with hail in a year is 0.2-0.4. In Yerevan 2.4 days with hail in a year are observed. In the Zangezur area, the number of days with hail is 1.5-2. On the Leninakan plateau, the number of days with hail in a year varies within limits of 4-7. The most subject to hail damage are the Lori-Pambak area (Kalinin 8.9 days, Kirovakan 7.5 days, Dilizhan 6 days), high-mountain areas and mountain passes (Aragats, high-mountain 9.1 days, Yeratumber 8.8 days, the Sisian pass 6.6 days).

An increase in the frequency of hail is observed in sections, situated against mountain passes (Sevan, island, Dilizhan 6 days). The number of days with hail considerably increases with a rise upward in the river valleys (Table XIII).

From Table XIII and Fig. 27 it is evident that at the headwaters of rivers, the number of days with hail increases. However, in different basins and at different elevations, the degree is dissimilar. Thus, in the basins of the of Agstev and Debed rivers, up to approximately 1000 m, the number of days with hail in a year

increases with every 100 m on the average by 0.4-0.5 days, and at elevations from 1000 to 1400 m - by 1 day. In the basins of the Vorotan, Kasakh, Razdan and Arpa rivers, up to an elevation of 2000 m, the degree on the average is equal to 0.5-0.6 days for every 100 m.

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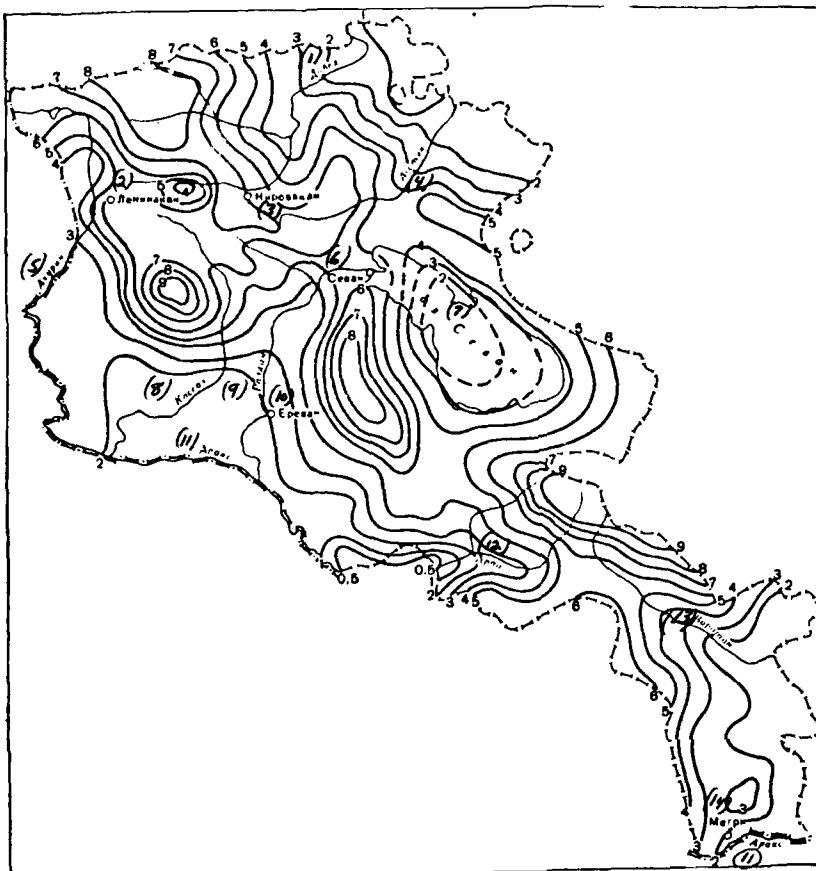


Fig. 26. Average number of days with hail. Year.

Key: (1). Debed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

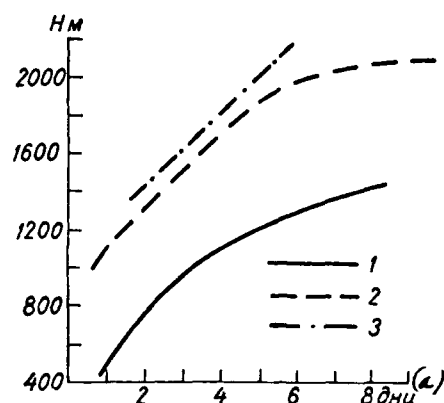


Fig. 27. Dependence of the number of days with hail according to elevation. 1 - Northeastern areas (rivers of Agstev, Debed), 2 - central area (Razdan, Kasakh rivers) and the Arpa river basin, 3 - Zangezur (Vorotan river).

Key: (a). days.

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The greatest number of days with hail in the territory in question (more than 10) is observed at the headwaters of the Kasakh (up to 13 days), Razdan (up to 19 days), Agstev (up to 17 days), Arpa (up to 16 days), Vorotan (up to 16 days) rivers, in the northern and northwestern areas of the republic and in the Lake Sevan basin (up to 19 days). About 5 days with hail in a year are noted in the northeastern areas of the republic, in the Ararat valley and in the southern areas of Zangezur (Fig. 28).

There is considerable interest in the annual variation of hailstorms in the territory of the Armenian SSR (Fig. 29). The

greatest number of days with hail in the territory is observed almost everywhere during May and June.

In the Ararat valley and the southern areas of Zangezur, the maximum number of days with hail is noted during May - June (0.2-0.5 days). In Yerevan, hail is most frequently observed at the end of April - May (0.7 days). In the northwestern, northern and northeastern areas of the republic, on the Shirak plateau and in the Lake Sevan basin, the greatest number of days with hail is observed at the end of the spring and beginning of the summer with the maximum during June. Only at the Aragats, high-mountain station does hail most frequently fall during July - August (2.6 days).

Table XIII.

Number of days with hail depending on elevation and location of station.

(a) Бассейны рек	(b) Станция	(c) Высота (м)	(d) Число дней с градом за год
(1) Дебед . . . . .	(2) Дебедашен (Ламбалу)	453	1.1
	(3) Шнох	656	1.2
	(4) Одзун (Узунлар)	1127	3.6
	(5) Кировакан	1350	7.5
(6) Агстев . . . . .	(7) Узунтала	505	1.1
	(8) Иджеван	732	2.4
	(9) Дилижан	1252	6.0
	(10) Лермонтово	1798	6.0
(11) Раздан . . . . .	(12) Ереван	910	2.4
	(13) Фонтан	1798	3.5
	(14) Раздан	1765	3.9
	(15) Севан, ГМС	1936	5.6
	(16) Ератумбер	3100	8.8
(17) Касах . . . . .	(18) Аштарак	1090	1.5
	(19) Егвард	1317	2.2
	(20) Кошабулах	1890	5.4
	(21) Апаран	1891	5.9
(22) Арпа . . . . .	(22) Арени	1009	0.4
	(23) Ехегнадзор	1267	2.6
	(24) Гергер	1673	4.6
	(25) Джермук	2066	9.4
(27) Воротан . . . . .	(27) Горис	1398	1.8
	(28) Сисиан	1580	3.1
	(29) Базарчай	2031	5.4
	(30) Сисианский перевал	2380	6.6

Key: (a). River basins. (b). Station. (c). Elevation (m). (d). Number of days with hail in a year. (1). Debed. (2). Debedashen (Lambalu). (3). Shnokh. (4). Odzun (Uzunlar). (5). Kirovakan. (6). Agstev. (7). Uzuntala. (8). Idzhevan. (9). Dilizhan. (10). Lermontov. (11). Razdan. (12). Yerevan. (13). Fontan. (14). Razdan. (15). Sevan, GMS. (16). Yeratumber. (17). Kasakh. (18). Ashtarak. (19). Yegvard. (20). Koshabulakh. (21). Aparan.

- (22). Arpa. (23). Areni. (24). Yekhegnadzor. (25). Gerger.  
(26). Dzhermuk. (27). Vorotan. (28). Goris. (29). Sisian.  
(30). Bazarchay. (31). Sisian pass.



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By early spring and by late autumn, hailstorms are rarely observed and amounts on the average to 0.1-0.5 days. Sometimes hail damages are also noted in the winter months, but they are very rare and it is not so dangerous as in the summer. The number of days with hail at this time does not exceed 0.1.

In the territory in question, hail predominantly falls in the afternoon hours, between 1300 and 1900 hours. In the morning and night hours, hail is a comparatively rare phenomenon. The duration of a hailstorm is usually insignificant.

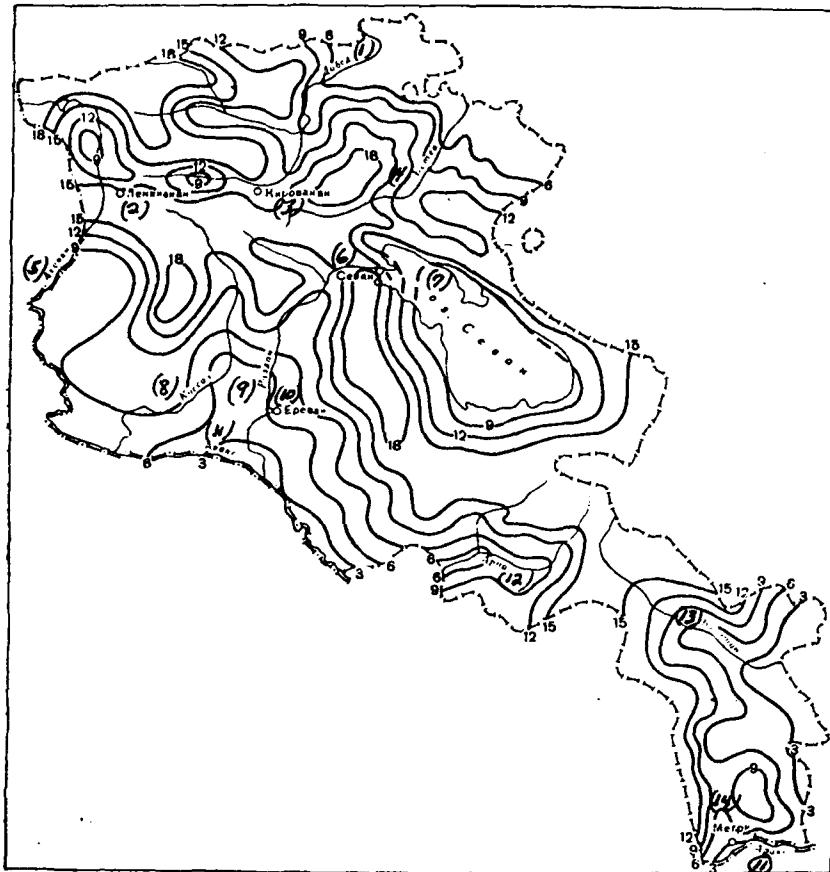


Fig. 28. Greatest number of days with hail. Year.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

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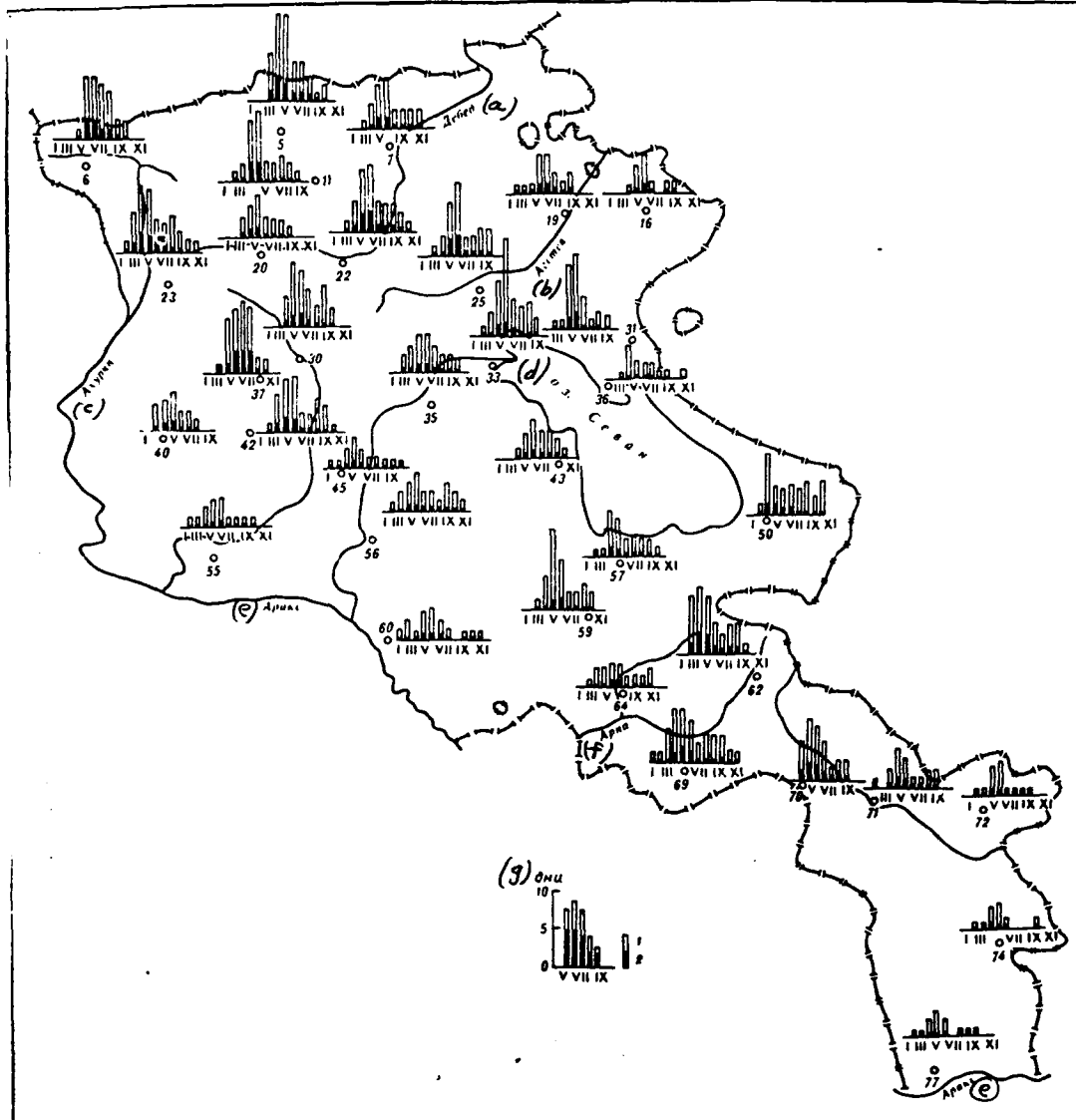


Fig. 29. Map-diagram of annual variation of average (2) and greatest (1) number of days with hail, (greatest number of days with hail is counted from the upper boundary of the average number).

Key: (a). Debed. (b). Agstev. (c). Akhuryan. (d). Lake Sevan. (e). Araks. (f). Arpa. (g). days.

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## EXPLANATIONS FOR THE TABLES.

### SECTION 1. Cloud cover.

The degree of cover of the sky with clouds is evaluated visually by observers (by rule of thumb) according to a ten-ball scale. The complete absence of clouds is designated by 0 balls, cloud cover of 1, 2 balls and so forth means that clouds covered 1, 2 and so forth tenths of the sky. A cloud cover of 10 balls indicates that the entire sky is overcast.

In all the tables, the different characteristics of cloud cover are represented separately for low and total cloud cover. Relating to low cloud cover are only low clouds with a vertical altitude limit of approximately 2000 m and lower to the earth's surface. Clouds of vertical development (cumulonimbus) are related to low cloud cover, independent of the level of their apexes. All clouds, observed simultaneously, regardless of which tier they relate to, are related to total cloud cover.

The period of 1936-1965 is used as the basis for all characteristics of cloud cover. The selection of this period is caused by the transition, beginning with 1936, from the three-time (0700, 1300 and 2100 hours) to the four-time (0100, 0700, 1300, and 1900 hours) observations.

The change of the periods of observations created a heterogeneity of the numbers before and after 1936, since cloud cover, especially in the summer months, changes substantially in the course of twenty-four hours.

Usually visual observations depend to a considerable extent on the subjective evaluation of the observers and frequently the evaluation of cloud cover is not done according to a 10-point scale, but is more rough. As practice has shown, observers frequently note even or odd degrees of cloud cover, i.e., actually observe according to a five-point scale. Therefore, for purposes of the use of the data of a larger number of stations, all marks of cloud cover are united into three groups: clear skies (0-2 balls), semiclear (3-7 balls) and cloudy (8-10 balls).

The unification of the two adjacent 1 and 2 balls, as well as 8 and 9, into one group, somewhat smooths the inaccuracy in observations. With clear or cloudy skies, the evaluation of cloud cover becomes most precise, and therefore the attachment of the mark of 0 balls to the group of 1-2 balls and the mark of 10 balls to the group of 8-9 balls does not decrease the accuracy of these groups. The unification of the interval 3-7 balls into one group is permissible because this group is usually observed less frequently than the other extreme groups (0-2 and 8-10 balls). Separation of it into smaller groups is not advisable in view of the insufficient

accuracy of the evaluation of cloud cover.

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The main characteristic of cloud cover is the frequency of the different sky conditions: clear (0-2 balls), semiclear (3-7 balls) and cloudy (8-10 balls) (Table 1, 2 and 3). The average value is not a sufficient climatic characteristic of cloud cover, since the curve of distribution of cloud cover strongly differs from the curves of distribution of the other meteorological elements in terms of the fact that the greatest frequency falls at the extremes of the marks of cloud cover, but the smallest - at values, close to the average value. Therefore the cloud amount of the middle level differs significantly from that which predominates. However, information about the values of the cloud amount of the middle level is necessary for a number of research and practical purposes (for example, for calculating the values of solar radiation). This information is given in Table 5-7 of this section of the handbook.

Table 4 gives data about the number of clear and cloudy days.

Clear is considered to be a day, during which the sum of the marks of cloud cover in the four periods of observations does not exceed 7 (from 0 to 7 balls inclusively), but cloudy is a day, during which the sum of the marks of cloud cover in the four periods of observation is not less than 33.

These data make it possible to judge, to a certain extent, the stability (in the course of twenty-four hours) of one or the other sky condition.

Table 8 and 8a give data, which characterize the frequency of different cloud types, while in Table 9 - the frequency of different gradations of low cloud cover for this gradation of the total. For a representation about the daily variation of characteristics of cloud cover, data about the cloud amount of the middle level, the frequency of different marks of cloud cover and cloud types are detailed for the various periods of observations (0100, 07 00, 1300, 1900 hours).

At many stations in recent years, instrument observations of the altitude of the lower cloud base have been organized, which makes it possible to refine the visual estimate of cloud cover.

Table 1. Frequency of clear (0-2 balls), semiclear (3-7 balls) and cloudy (8-10 balls) skies for total and low cloud cover (%). The Table presents the frequency of different sky conditions for low and total cloud cover in percentages of the total number of observations in a month. The degree of covering of the sky with clouds is given, taking into account both the clouds of all types without subdivision according to altitude, and taking into account clouds only of the lower tier. The data were essentially acquired by direct calculation within the limits of the period 1936-1965. A short series of observations were normalized by the method of differences for the full

period of observations.

Cloud cover, in spite of the relative stability, which is similar to the other meteorological elements, is subject to variations from year to year (Table XIV).

The data of Table XIV give a representation of the possible variations of the frequency of clear and cloudy skies in separate years during a 30-year period according to the Krasnosel'sk station. According to both total and low cloud cover, the variations of the frequency of cloudy skies was very large during the year, from 31 to 67%.

In Table XV, data of the frequency of clear and cloudy skies according to total and low cloud cover are cited for different decades at the Amasiya station.

As can be seen from the table, the differences between adjacent decades can reach 14%. Such large differences indicate the need for normalizing a short series of observations over a more prolonged period.

The distribution of the frequency of cloudy skies according to total and low cloud cover was examined in detail in the general characteristics of cloud cover.



The distribution of the frequency of clear skies is a mirror reflection of the frequency of cloudy skies according to both total and low cloud cover.

In summer, the frequency of clear skies according to total cloud cover, is more than in the winter, essentially throughout the entire territory. The most clear skies are noted during August and September. Only on the Loriy steppe (Kalinin, Stepanavan), at the headwaters of the Agstev and Tandzut rivers, in the Kirovakan, Lermontov, Dilizhan and Semenovka areas, the maximum frequency of clear skies is noted during October, December and January.

In the Ararat valley, the frequency of clear skies is the greatest in the republic, its maximum is 69-70% on average; in the Sevan Basin, in the northeast of the republic and in Zangezur it is 45-55%, on the Leninakan plateau, 55-60%.

The smallest frequency of clear skies is noted on the Loriy steppe and the monthly maximum is 30-35%. The cloudy period is from March through May, and the frequency of clear skies at this time reaches, for the majority of the territory, 26% in a month on average, and on the Loriy steppe 16-18% (Sisian pass 17%, Semenov pass 19%).

Table XIV.

The average, greatest and smallest frequency (%) of clear (0-2 balls) and cloudy (8-10 balls) skies according to total cloud cover during the period of 1936-1965 at the Krasnosel'sk station.

(a) Состояние неба	Повторяемость (b)	(c) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(1) Ясное . . .	(2) Средняя	(3) Общая	39	34	27	25	24	29	29	38	37	40	36	40
	(5) Наибольшая	(4) Нижняя	63	59	51	45	40	38	36	44	42	53	56	63
	(6) Наименьшая	Общая (2)	59	54	44	42	40	42	46	76	73	68	62	64
		Нижняя (2)	87	85	76	69	63	58	56	90	78	74	78	87
		Общая (2)	21	17	17	12	7	15	14	12	14	10	14	23
		Нижняя (2)	38	31	27	23	19	21	15	16	16	20	36	36
(7) Пасмурное	(2) Средняя	Общая (3)	44	49	58	60	58	48	50	42	48	45	49	45
	(5) Наибольшая	Нижняя (4)	23	27	35	38	36	36	43	37	43	33	32	24
	(6) Наименьшая	Общая (3)	63	67	76	78	81	59	71	71	69	77	72	64
		Нижняя (4)	42	49	64	64	61	52	71	71	69	65	58	52
		Общая (2)	17	27	35	31	37	28	25	9	18	24	19	23
		Нижняя (4)	8	7	15	17	14	15	22	4	13	13	13	8

Key: (a). Sky condition. (b). Frequency. (c). Cloud cover. (1). Clear. (2). Average. (3). Total. (4). Low. (5). Greatest. (6). Smallest. (7). Cloudy.

Table XV.

Frequency (%) of clear (0-2 balls) and cloudy (8-10 balls) skies in different decades according to total and low cloud cover. The Amasiya station.

(a) Десятилетие	I				IV				VII				X			
	0-2	Δ	8-10	Δ	0-2	Δ	8-10	Δ	0-2	Δ	8-10	Δ	0-2	Δ	8-10	Δ
(1) по общей облачности																
1936-1945	27		72		26		59		48		29		52		54	
1946-1955	34	-7	68	4	32	-6	57	2	62	-14	22	7	53	-1	42	12
1956-1965	39	-5	66	2	26	6	69	-12	64	-2	27	-5	65	-12	36	6
(2) по нижней облачности																
1936-1945	50		40		53		22		60		8		58		18	
1946-1955	52	-2	40	0	54	-1	27	-5	68	-8	8	0	62	-4	19	-1
1956-1965	59	-7	38	2	47	7	39	-12	62	6	18	-10	68	-6	20	-1

Note. The sign Δ in the table indicates the difference between the the decades.

Key: (a). Decade. (1). according to total cloud cover. (2). according to low cloud cover.

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In the winter, the frequency of clear skies according to low cloud cover is distributed throughout the territory relatively evenly.

During January, the most clear skies, with a frequency of 65% on average, are observed in the northeastern areas of the republic and in the eastern areas of Zangezur.

The cloudy areas of the republic - the shores of the Lower Sevan and the high-mountain areas, are where the frequency of clear skies according to low cloud cover is 45-47% on average. In the remaining

areas, it is equal to 55-57% on average.

A more diverse distribution of clear skies throughout the territory is observed in the summer period (July).

In the Ararat valley and in the Megrin area, the frequency of clear skies is 75-77% on average, while on the Loriy steppe, where this is the rainiest time of year, only 35-36%. Clear skies are somewhat more frequently noted (42-43%) on the north and west shores of the Lower Sevan. In the rest of the territory it is 55-65%.

The greatest frequency of clear skies is noted in the western areas during September and August (Leninakan plateau 72-70%, Ararat valley - 80-89%).

Table 2. Frequency of clear (0-2 balls), semiclear (3-7 balls) and cloudy (8-10 balls) skies according to total cloud cover in different hours of the day (%).

Table 3. Frequency of clear (0-2 balls), semiclear (3-7 balls) and cloudy (8-10 balls) skies according to low cloud cover in different hours of the day (%). Tables 2 and 3 give data of the frequency of clear, semiclear and cloudy skies according to total and low cloud cover separately for different periods of observations (0100, 0700, 1300 and 1900 hours) in percentages of the number of observations of each period in a month. They give a representation of

the daily variation of one sky condition or another.

Stations with a series of observations of not less than 20 years, whose data were acquired by direct calculation, were used for these tables. Data for a short period are normalized for a full period by the method of differences (Kalinin, Sevan, GMS, Shorzha, Oktemberyan, Leninakan stations). They should be considered to be tentative.

The daily variation of cloud cover is noted for an entire year, and as a rule, in the entire territory of the republic, the daily variation of the frequency of clear skies according to low cloud cover is more expressed in the cold period of the year than in the warm. The daily variation of the frequency of cloudy skies changes insignificantly during the year.

Intermittent cloud cover (3-7 balls), like clear skies, has a well expressed daily variation only in the warm half of the year.

The daily variation of low cloud cover both throughout the territory of the republic and in different seasons is quite diverse.

In the cold time of the year (January - December), in the plains territories (Yerevan, Leninakan), as a result of the emergence of ground inversions, the greatest cloud cover is noted during the night and morning hours, in the evening - the smallest.

In the summer (July - August), clear skies predominate in these areas in all hours of the day.

From July to winter, the greatest cloud cover in the republic is noted everywhere during the day, the smallest - at night and in the evening, in the Yerevan area, the greatest cloud cover is noted in the afternoon hours.

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In the Lori-Pambak area (Kalinin, Kirovakan) clear skies predominate during night and morning hours, while in the daytime and in the evening, clouds and intermittent cloud cover increase.

Approximately the same picture is also observed in the Sevan Basin.

The daily range of the frequency of cloudy skies in winter, according to total cloud cover, varies throughout the territory from 10 to 20% on average, in the summer - within the limits of 20-25%. The daily range is most clearly expressed on the Shirak plateau (Leninakan 35%), also, in the shielded areas of the Zangezur (Sisian 35%).

The daily range of cloudy skies according to low cloud cover in the winter is somewhat less than in the summer. In the Lake Sevan basin in the winter its values vary from 1 to 12%, and in the summer from 8 to 17%. In the Lori-Pambak area, the daily range does not have an expressed annual variation (Fig. 30).

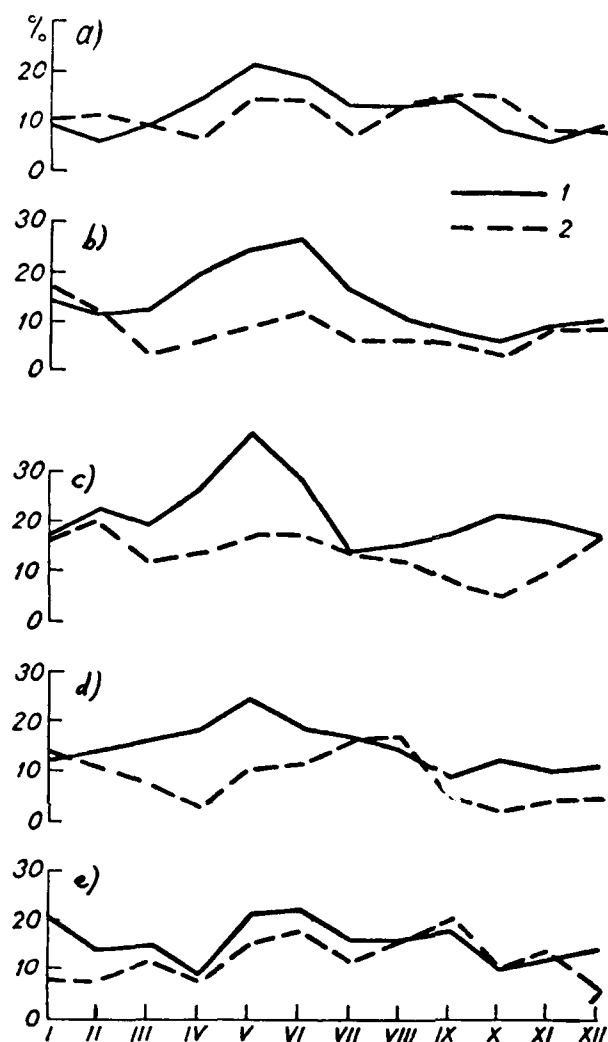


Fig. 30. Daily range of cloudy skies according to total (1) and low (2) cloud cover. a) Goris (Zangezur), b) Yerevan (Ararat valley), c) Leninakan (Shirak plateau), d) Sevan, GMS (Lake Sevan basin), e) Kirovakan (Pambak area).

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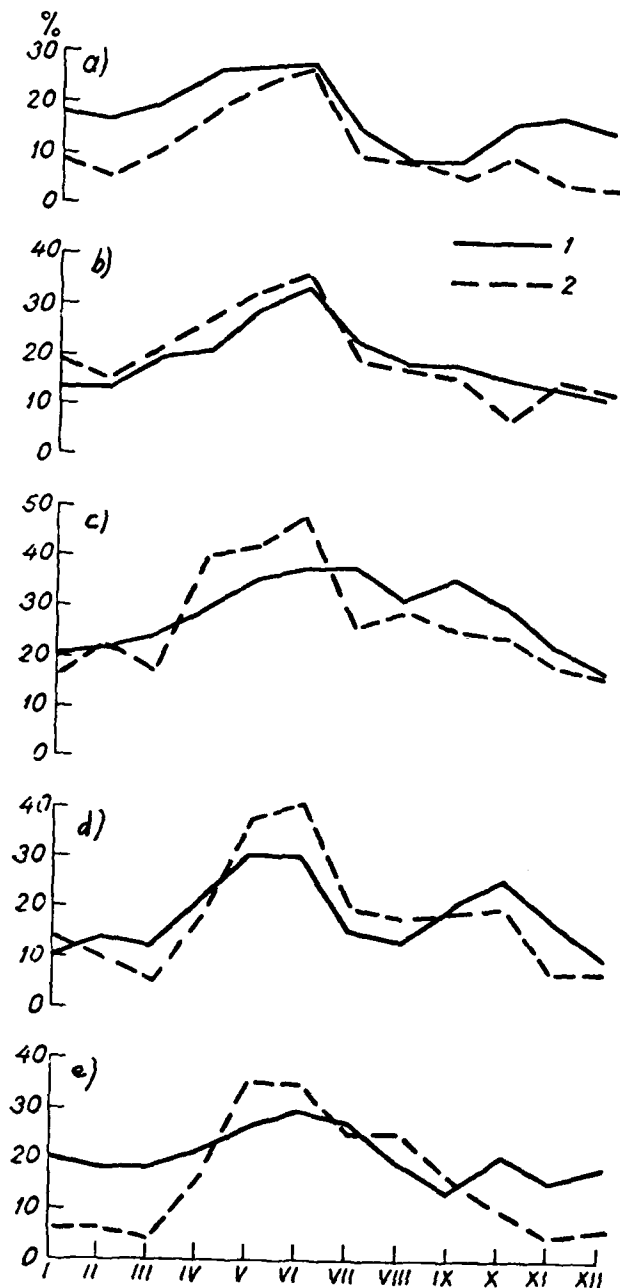


Fig. 31. Daily range of clear skies according to total (1) and low (2) cloud cover. a) Goris (Zangezur), b) Yerevan (Ararat valley), c) Leninakan (Shirak plateau), d) Sevan, GMS (Lake Sevan basin), e) Kirovakan (Pambak area).



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The greatest daily range of clear skies according to both total and low cloud cover (Fig. 31) is noted during May - June.

Table 4. Number of clear and cloudy days according to total and low cloud cover.

The data of Table 4 are the average monthly number of clear and cloudy days according to total and low cloud cover and the sum of these days in a year.

For stations which have a series of observations of not less than 20 years within the limits of the period 1936-1965, the data are acquired by direct calculation. The data of stations which have a period of observation which is less than 20 years, are normalized over the full period by the method of differences.

Table 4 gives a representation of the stability of clear or cloudy weather in the course of twenty-four hours and supplements Table 1.

The annual variation of the number of clear and cloudy days according to total cloud cover throughout the entire territory is expressed distinctly: the maximum number of cloudy days is noted two times year - in spring (March - May) and in late autumn or in winter (November - December).

The maximum clear days in the larger part of the territory of the republic is noted in summer (August - September). In the areas of Dilizhan, Kirovakan, the greatest number of clear days is noted during January and September (Fig. 32).

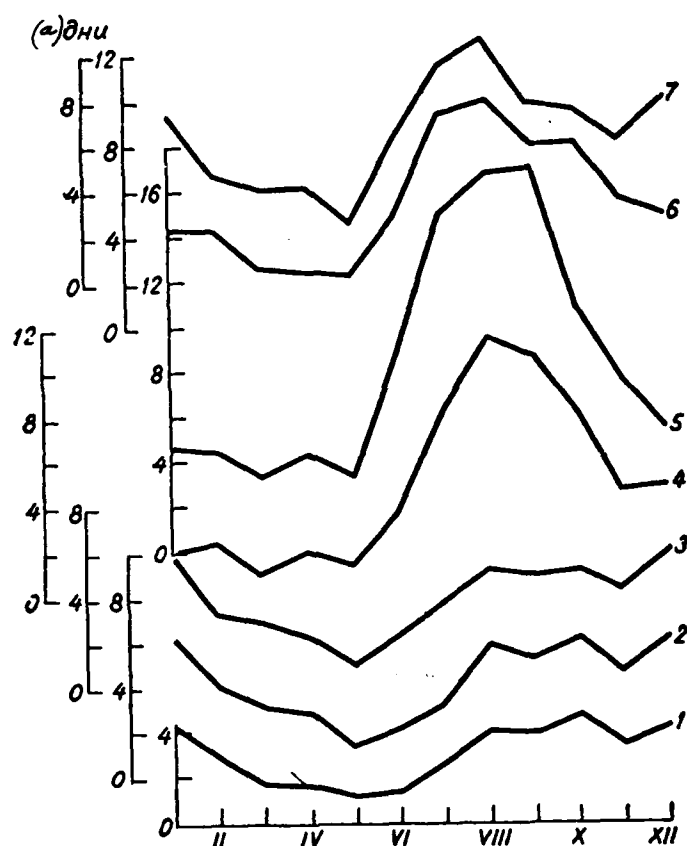


Fig. 32. Annual variation of the number of clear days according to total cloud cover. 1 - Kalinin, 2 - Kirovakan, 3 - Dilizhan, 4 - Leninakan, 5 - Yerevan, 6 - Sisian pass, 7 - Goris.

Key: (a). days.

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The number of clear and cloudy days has large variations from year to year.

Thus, at the Krasnosel'sk station, in 95% of the years there can be 37 or more clear days in a year, in 5% of the years - 93 days or

more.

Variations in separate months are also quite considerable, especially in summer. During August at the Krasnosel'sk station, in 95% of the years there is 1 or more clear day, in 5% of the years - 18 days or more.

Table 5. Average monthly and annual total and low cloud cover (balls).

Table 6. Average monthly and annual total cloud cover in different hours of the day (balls).

Table 7. Average monthly and annual low cloud cover in different hours of the day (balls). Cited in the tables are data of cloud amount of the middle level (total and low) according to months and for different hours of the day. The data for the tables were acquired by direct calculation for a series of observations of not less than 20 years within the limits of the period 1936-1965.

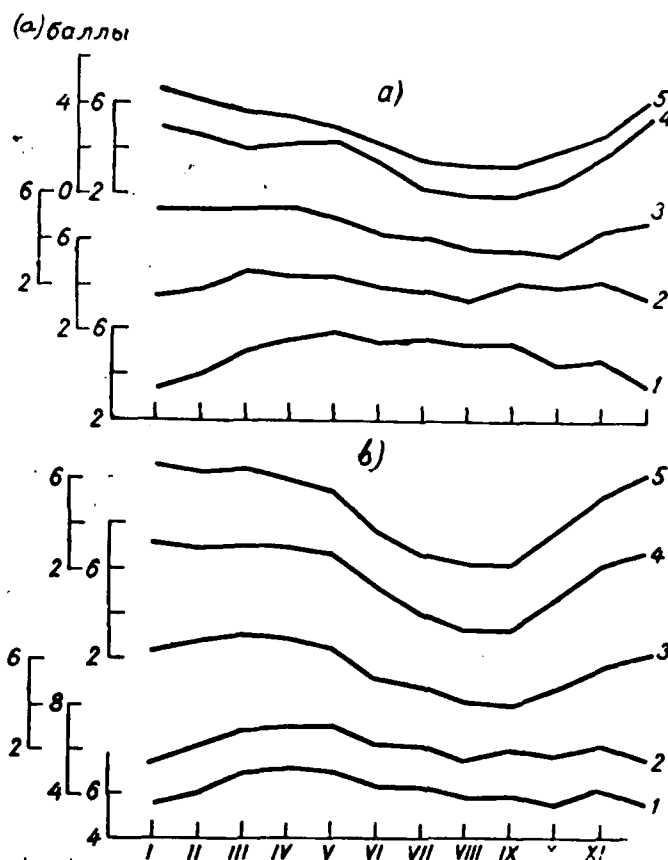


Fig. 33. Annual variation of average low (a) and total (b) cloud cover. 1 - Stepanavan, 2 - Dilizhan, 3 - Sevan, 4 - Leninakan, 5 - Yerevan.

Key: (a). balls.

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In the annual variation of both the total and low cloud cover in the areas of the Ararat valley and the Shirak plateau and in the Lake Sevan basin, one maximum is noted (in the spring) and one minimum (in the summer). In the Lori-Pambak area, an annual variation is weakly expressed. (Fig. 33a, b).

The average annual total and even more, the low cloud cover, changes within large limits throughout the territory. The greatest cloud amount of the middle level is observed in the northern and northeastern areas of the territory. The annual minimum of the cloud amount of the middle level is noted in the Ararat valley.

The daily variation of the cloud amount of the middle level is dissimilar in the warm and cold halves of the year. In the cold season, the daily variation of the average quantity of total cloud cover is small (the range does not exceed 1.0-1.5 balls), maximum values are observed in the morning or daytime hours. In the warm half of the year, the greatest cloud amount of the middle level is noted in the daytime or the evening hours, and the daily range is greater in the summer than in the winter. The greatest range is observed throughout the entire territory during May - June (2.0-3.0 balls). At high-mountain stations (Aragats, high-mountain) the greatest daily range is noted during July (3.3 balls), and the maximum of the cloud amount of the middle level occurs over the course of the year at 1300 hours, and during May at 1900 hours (Table XVI).

Table 8. Frequency of basic cloud types (%).

Table 8a. Frequency of basic cloud types at different hours of the day (%). The tables present the frequency of basic cloud types according to months and at different hours of the day: lower tier

(St, Ns, Sc, Cu, Cb, Frnb) in percentages for the total series of observations, middle tier (As, Ac) in percentages for a series of observations, when low cloud cover was not dense and it was possible to observe the middle clouds, and the upper tier (Ci, Cs, Cc) in percentages for a series of observations, when the cloud cover of the low and middle tiers was not dense and made it possible to observe the high clouds. Cases of cloudless skies are included in the observations. It is necessary to keep in mind that the frequency of all cloud types is not equal to 100%, since cases of the presence of cloud types of the second or third tiers simultaneously are possible.

Table XVI.

Daily variation of total average cloud cover.

(a) Станция	(b) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(1)													
Кировакан (долина) . . . . .	1	4.7	5.1	5.5	6.0	5.8	5.1	5.1	4.8	5.2	4.5	5.2	4.6
	7	5.7	6.4	7.1	6.8	6.2	5.2	5.7	4.9	5.5	5.7	6.5	5.8
	13	6.2	6.6	7.0	7.6	7.5	6.9	6.5	5.4	5.3	5.6	6.4	6.2
(2)													
Мазра (побережье оз. Севан) . . . .	19	4.8	5.1	6.4	7.3	8.0	7.6	7.2	6.4	6.4	5.1	5.3	4.8
	1	5.4	5.5	5.6	5.5	4.9	3.7	3.6	2.7	2.7	3.7	4.8	5.2
	7	6.5	6.8	6.9	6.6	5.3	3.3	3.2	2.8	3.0	4.6	5.8	6.3
(3)													
Ереван (котловина) . . . . .	13	6.6	6.6	6.9	7.3	6.7	5.5	4.2	3.9	4.2	5.2	6.0	6.5
	19	5.4	5.6	6.4	6.8	7.2	5.8	4.5	3.6	3.5	4.0	4.9	5.2
	1	6.3	5.9	5.6	4.9	4.3	3.0	2.3	1.8	1.7	3.1	4.5	5.8
(4)													
Арагац, высокогорная (склон) .	7	7.3	6.9	6.9	6.1	5.2	3.0	2.5	2.3	2.4	4.2	5.7	6.7
	13	6.8	6.8	7.2	6.6	5.6	3.4	2.2	1.9	2.2	4.1	5.7	6.7
	19	6.0	5.7	6.3	6.6	6.9	5.4	3.8	3.1	2.9	3.6	4.7	5.7
	1	5.6	5.9	6.0	5.9	5.6	4.0	3.1	2.4	2.3	4.1	5.2	5.2
	7	6.5	7.0	7.1	7.0	6.2	4.0	3.5	2.7	2.9	4.9	6.0	6.2
	13	6.8	7.1	7.5	7.6	7.3	6.8	6.4	5.5	5.3	6.4	6.6	6.5
	19	5.6	5.8	6.6	7.1	7.9	6.2	4.9	4.0	5.3	4.5	5.3	5.3

Key: (a). Station. (b). hours. (1). Kirovakan (valley). (2). Mazra (shores of Lake Sevan). (3). Yerevan (basin). (4). Aragats, high-mountain (slope).

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Tables 8 and 8a were obtained with the aid of mechanized processing, carried out by the Novosibirsk branch GMTs for a number of stations within the limits of the period 1936-1960.

The annual variation of cloud cover depends on the time of year and the atmospheric processes characteristic for this season. Nimbostratus clouds (Ns) are observed everywhere in the republic in the cold season with the frequent passage of fronts, when cyclonic activity is the most intense. These cyclones, as a rule, move from the areas of the Mediterranean and Turkey into Transcaucasia. In the



summer, the frequency sharply falls. Altostratus clouds have a similar route, since their formation is connected with the same conditions as the formation of nimbostratus clouds.

The annual variation of cumulus clouds has a well expressed maximum in the period of strong heating of the soil and the development of powerful convective currents. Throughout the territory it essentially occurs during the spring-summer period with the maximum during June from 20 (Kirovakan) to 32% (Shirak plateau, Ararat valley). In winter, the frequency of cumulus clouds in the republic is insignificant, not exceeding 8% (Oktemberyan).

The annual variation of cumulonimbus clouds is similar to the annual variation of cumulus with a somewhat more expressed maximum during May - June. Their maximum frequency in a month varies throughout the territory from 16 (Bazarchay) to 33% (Kirovakan). In the winter, the frequency of cumulonimbus clouds is less than the frequency of cumulus and for the majority of the territory of the republic is 0.2%.

Alto cumulus clouds do not have an expressed annual variation, since their formation is connected with fronts, inversions, convection, orographic waves and other processes, which occur throughout the course of the year. The frequency of alto cumulus clouds varies throughout the territory of the republic over wide limits (from 21% in Shurabad to 48% in Shorzha).

Stratocumulus clouds (Sc) have a diverse annual variation in different parts of the territory. Thus, in the northern and northeastern areas, the greatest frequency of stratocumulus clouds is observed during July, 53% on average. In the Ararat valley and on the Shirak plateau, two maximums are noted: the first - during March - April (45% on average), the second - during November (44% on average). In the Lake Sevan basin, a definite increase in the quantity of these clouds is observed in the winter period.

Some basic cloud types have an expressed daily variation, especially low clouds. The daily variation of stratocumulus clouds is well expressed throughout the entire territory of the republic. In the Ararat valley, on the Shirak plateau and in the Lake Sevan basin in the winter, from November to March, their maximum is noted at 0700 hours, in the summer period, from April through October, it changes to 1900 hours.

In the northern and northeastern areas, at the high-mountain stations, the winter maximum of Sc is noted at 1300 hours, and summer - at 1900. Cumulus cloud cover has a well expressed daily variation everywhere in the republic. During the course of the year, its maximum is noted at 1300 hours. Cumulonimbus cloud cover has an expressed daily variation only in the warm period of the year, from April through October, with the maximum at 1900 hours. However, in some areas (Shorzha, Lermontov) it is similar to the daily variation

of cumulus clouds. Nimbostratus and stratus do not have an expressed daily variation throughout the entire territory of the republic.

Table 9. Frequency of different gradations of low cloud cover with specific gradations of total cloud cover (%).

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The table gives a representation of the possible combinations of low and total cloud cover. The data of this table were acquired with the aid of mechanized data processing by the Novosibirsk branch of the GMTs for a selective network of stations during the period 1936-1960.

The data given in the table characterize the frequency of different gradations of low cloud cover with specific gradations of total cloud cover in percentages of the total number of observations and they are a supplement to Table 1.

Calculation of the frequency of different combinations of low and total cloud cover can be produced, both for months and for separate periods.

Three combinations of the four others can be obtained from very simple correlations, which connect the frequencies of separate gradations of low and total cloud cover, and one specially designed. The complex  $\frac{3-7}{3-7}$  is selected as the key combination. In this case, the three other combinations will be determined by the following

relationships:

$$P \frac{3-7}{0-2} = P \frac{(1)_{\text{общ}}}{3-7} - P \frac{3-7}{3-7}, \quad (1)$$

$$P \frac{8-10}{0-2} = P \frac{(2)_{\text{ниж}}}{0-2} + P \frac{(1)_{\text{общ}}}{8-10} + P \frac{3-7}{3-7} - 100, \quad (2)$$

$$P \frac{8-10}{3-7} = P \frac{(2)_{\text{ниж}}}{3-7} - P \frac{3-7}{3-7}, \quad (3)$$

Key: (1). total. (2). low.

where the values of total cloud cover are given in the numerator, low - in the denominator.

The frequencies of combinations  $P$  total/0-2 and  $P$  low/8-10 can be obtained directly from Table 1, and the rest - from relationships (1)-(3).

## SECTION 2. FOG.

A period of observations from 1936 through 1965 is used for all the tables with different characteristics of fog. This is caused by the fact that in connection with the transition of the meteorological stations to four-time observations and the inclusion of the night period, atmospheric phenomena (including fog, which is characteristic for night time) began to be recorded more systematically. Furthermore, a refinement of the determination of fog was introduced in 1936, taking into account the range of horizontal visibility.

The main characteristic of fog is the number of days with this atmospheric phenomenon. The average and greatest number of days with

fog is represented in Tables 1 and 1a. Besides the average number of days with fog, Tables 2 and 2a depict the frequency of the different number of days with fog for separate months and over the course of a year. A supplementary characteristic of fog, no less important in practice, is its duration for an entire month, a season and a year (Table 3) and for individual parts of days for the same intervals of time (Table 3a).

All the characteristics of fog listed above, are of interest for transport, aviation and other branches of the national economy.

Table 1. Average number of days with fog. This table depicts the many-year average number of days with fog for separate months, cold and warm periods and an entire year. The data were acquired essentially by direct calculation from a series of observations of no less than 15 years within the limits of the period 1936-1965.

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The data of two stations (Ankavan, Yeratumber) should be considered to be tentative; it proved to be unsuitable to normalize them over a more prolonged period. The data about the number of days with fog at stations with a period of observations of less than 15 years, where this was possible, were connected to a more prolonged period by the method of relations with the aid of correlation graphs/curves.

The average number of days with fog is a main characteristic of

fog. The distribution throughout the territory of the number of days with fog for separate months, seasons and over the course of a year is caused by the general physicogeographical conditions and characteristics of atmosphere circulation in separate areas.

Within the limits of any area, having an effect on the frequency of fog are place, type of relief, proximity of basins, temperature of water in near-shore zones, etc.

While using the data of Table 1, one should consider the location of stations, since the number of days with fog, besides general climatic conditions, to a considerable degree depends on local characteristics.

The smallest number of days with fog in the territory of the republic is noted in the southeastern areas and in the Lake Sevan basin (1-2 days), and the greatest - in high-mountain areas and in mountain passes (13-18 days) (Fig. 34). They are noted quite a bit in the areas of the Shirak plateau (Leninakan 17 days) and in the Ararat valley (Yerevan 13 days).

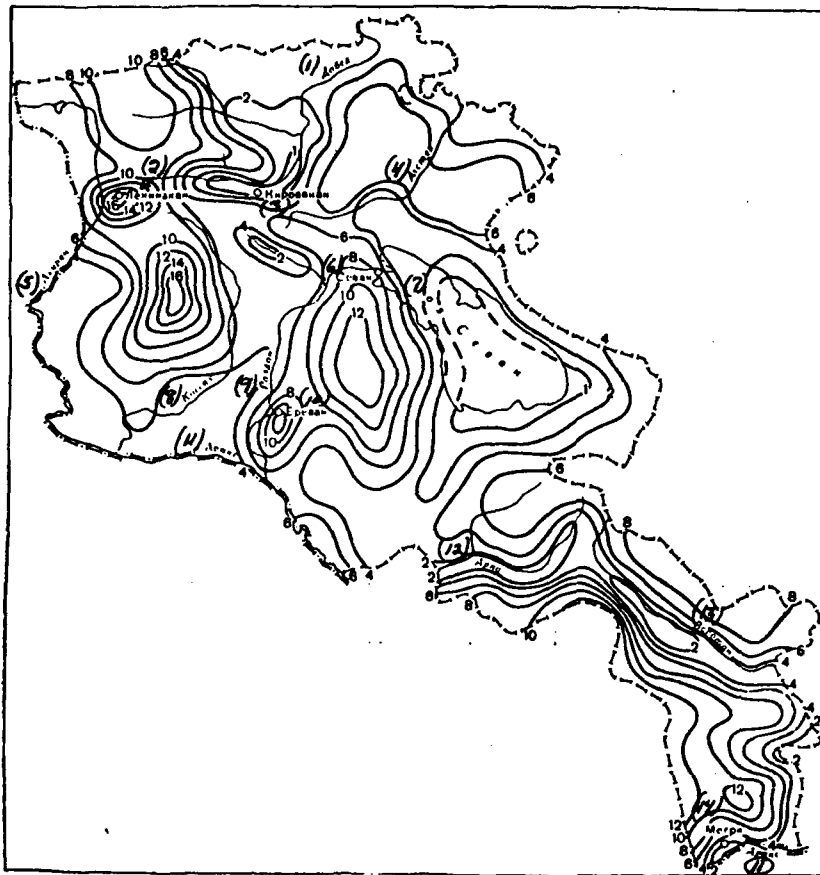


Fig. 34. Average number of days with fog. January.

Key: (1). Dabed. (2). Leninakan. (3). Kirovakan. (4). Agstev. (5). Akhuryan. (6). Sevan. (7). Lake Sevan. (8). Kassakh. (9). Razdan. (10). Yerevan. (11). Araks. (12). Arpa. (13). Vorotan. (14). Megri.

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During July, from 2 to 13 days with fog are observed only in the high-mountains and in mountain passes, from 1 to 3 days - in the areas of Goris, Khotanan Verin, and also in the area of the Shakhnazar, Kalinin and Sevan, GMO stations. Fog is not observed in the remaining territory of the republic during July.

Table 1a. Greatest number of days with fog. In the table, data about the greatest number of days with fog during a month, cold and warm periods and in an entire year at 39 stations in the available years of observations within the limits of the period 1936-1965 are cited. For Tables 1a, the data was processed during a period of observations of not less than 20 years with the exception of the Dilizhan station, for which, 19 years was selected. In view of the fact that the greatest number of days with fog for each month is not noted in one and the same year, the sum of the greatest number of days with fog in all the months is always more than the greatest number of days with this phenomenon in a year.

The maximum of the greatest number of days with fog throughout the territory of the republic is observed at the Aragats, high-mountain station (199 days a year), the minimum at Kirovakan (14 days).



Table 2. Frequency of different number of days with fog according to month (%).

Table 2a. Frequency of different number of days with fog in a year (%). Tables 2 and 2a supplement the information of Tables 1 and 1a and give a representation of the variability in separate years of the number of days with fog according to month and in a year. For the compilation of Table 2, stations were selected, located in different parts of the territory with a period of observation of not less than 20 years within the limits of 1936-65. The frequency of each gradation in the tables is expressed in percentages of the number of years of observations in a given month or year. For purposes of the comparability of the data of Tables 1, 1a, 2 and 2a for the stations, included in all of these tables, identical periods of observation were undertaken. In Table 2 there are 38 stations, 2a has 36 stations.

The data of Tables 2 and 2a are not sufficiently stable for stations with a large variability of days with fog in separate years in view of the small duration of the selected period. For the same reason, in some gradations there are omissions.

The tables give a representation of the variability of the number of days with fog in separate years according to month and in a year. In the studied territory, the largest frequency of the number of days with fog, 20 days or more, is observed in high-mountain areas. The Aragats, high-mountain station can serve as an example, where 20 days

or more with fog are observed from October through May, but the largest frequency of fog comes in January and March (50-60%).

In the Semenov pass, 20 days or more with fog are observed during September (24%). In the northwestern areas, on the northwestern shore of the Sevan and on the Shirak plateau, besides Leninakan, the frequency of gradation is 20 days or less and is 4-5%, while in Leninakan more than 50% of all cases of fog during January fall into this gradation. On the eastern slopes of Zangezur (Goris, Khotanan Verin) the number of days with fog of 20 or more comes in the spring and autumn periods of the year.

Table 3. Average duration of fog (hours).

Table 3a. Average duration of fog at different times of day (hours). Table 3 gives a representation of the duration of fog in separate months, seasons of the year and in an entire year, and in Table 3a, the same materials are detailed for individual parts of a day (1800-2400, 2400-0600, 0600-1200 and 1200-1800 hours).

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Observational data from 1801 to 2400 hours are related to the gradation of 1800-2400 hours, from 2401 to 0600 hours - to a gradation of 2400-0600 hours, etc. A series of observations were used of not less than 16 years within the limits of the period 1936-1965 at a selective network of stations. In tables 3 and 3a, 15 stations were

included.

The number of days with fog is closely related to its duration, which one can clearly see on the graph of connections (Fig. 35). Using this graph, it is possible to determine the duration of fog for points, for which there is only a number of days with fog, and the data of duration are absent.

Fig. 36 depicts the annual variation of the duration of fog in different areas of the territory. By comparing it with the annual variation of the number of days with fog (Fig. 12), it is possible to see that the annual variation of the number of days and the duration of fog is very close, which also testifies about the close connection of these characteristics.

The daily variation of the duration of fog in different areas is dissimilar. Fog is rarely observed in the Ararat valley, the Shirak plateau in the warm period of the year (April - September), and the daily variation of its duration is weakly expressed or entirely absent.

The most prolonged fog during this period of the year is noted at night (from 0000 to 0600 hours), the least prolonged - in the daytime (from 1200 to 1800 hours).

In areas, where the maximum number of days with fog and its

duration occurs during transition months (Semenovka, Krasnosel'sk, Goris), their smallest duration is during the day (from 1200 to 1800 hours), and the greatest - in the evening (from 1800 to 2400 hours) and at night (from 2400 to 0600 hours).

The greatest duration of fog in the cold half of the year (October - March) at the majority of stations is in the daytime hours, and in the east of the territory (Goris, Krasnosel'sk) in the evening (from 1800 to 2400 hours). The smallest duration almost everywhere is noted in the period from 1200 to 1800 hours and only at isolated stations from 1800 to 2400 or from 2400 to 0600 hours. In the spring and autumn months, the largest duration of fog occurs from 2400 to 0600 hours. The smallest duration almost everywhere is noted in the period from 1200 to 2400 hours.

The most prolonged fog has a frontal nature and is observed essentially in the winter and spring months. Sometimes this fog continues for several days in a row. Thus, in 1951, in the northeastern and southeastern areas of the republic, fog was observed from 28 February through 5 March.

The aerosynoptic conditions, with which this fog was noted, were the following: the center of an anticyclone was located in the area of the Urals, and a ridge was directed toward the areas of the Caspian Sea and Transcaucasia. Cold air, after penetrating into the northeastern and southeastern areas of the republic in the Kury and

Araks river valleys, gradually rose along the slopes of the mountains, was cooled and reached a saturation state. The fog had an essentially orographic nature.

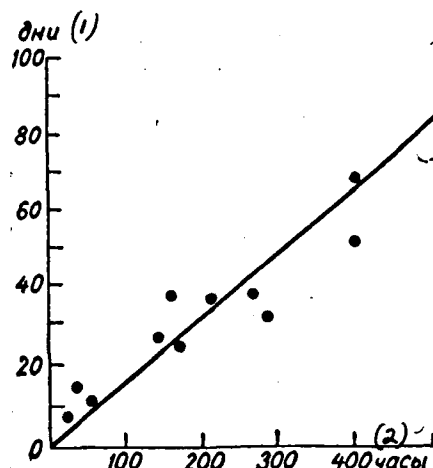


Fig. 35. Connection of the duration of fog (hours) and the number of days with fog.

Key: (1). days. (2). hours.

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The fog ceased in these areas in connection with the cessation of the eastern obstruction, i.e., with the destruction of the ridge of the anticyclone. During this period, in Goris, the fog continued for 130 hours and 30 minutes, in Khotanan Verin for 124 hours, in Krasnosel'sk for 66 hours, in Idzhevan for 27 hours.

Besides the average duration of fog in an entire month, Table 3 gives the average duration of fog during a day with fog. This characteristic is obtained for warm and cold seasons and during the course of the year by dividing the average annual duration of fog into the average number of days with fog (Table 1), calculated during the same period. The average duration of fog in a day with fog, which

gives a representation of the stability of the phenomenon, is dissimilar in the entire territory. The largest duration of fog during a day with fog in a year is observed in Goris (9.7 hours), and the smallest - in Yanykh (2.6 hours).

From October through March, in high-mountain areas, on the Shirak plateau, the western shores of Lake Sevan, in the Ararat valley, in the Agstev and Razdan river valleys, the duration of fog during a day with fog is 5-9 hours, and in the northern areas of the republic, Lori-Pambak, on the southern shores of Lake Sevan and in the south of the territory, 4-5 hours. The greatest duration of fog during a day with fog is observed in the cold period, the smallest - from April through September (Table XVII).

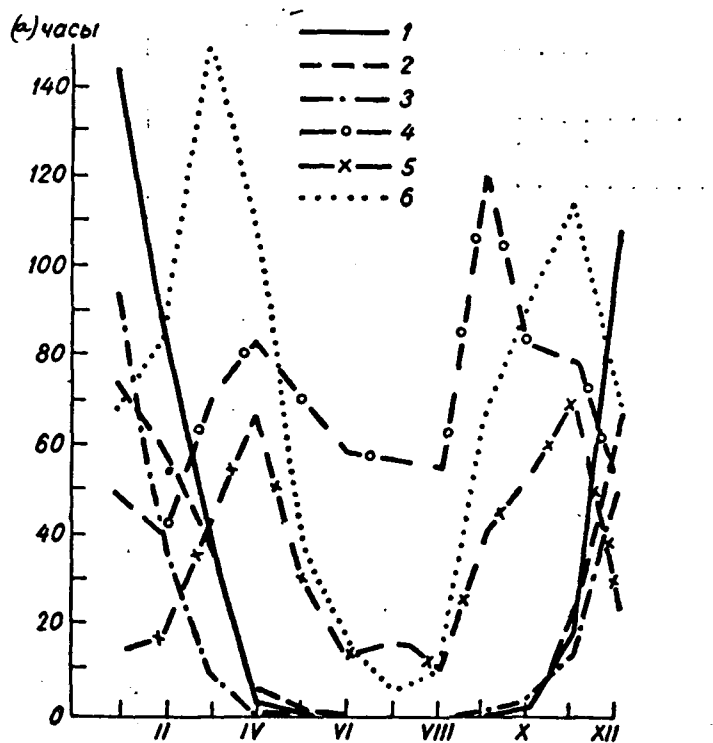


Fig. 36. Annual variation of the duration of fog. 1 - Leninakan, 2 - Sevan, GMS, 3 - Yerevan, 4 - Semenovka, 5 - Krasnosel'sk, 6 - Goris.

Key: (a). hours.

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### SECTION 3. SNOW STORMS.

The period from 1936 through 1965 is accepted as the basis for climatological processing of snow storms, since beginning with 1936, in connection with the transition from three-time to four-time observations and the introduction of the night period, snow storms began to be recorded more systematically (the presence of the



phenomenon began to be recorded with an accuracy to one quarter of an hour). The existing separation of snow storms into types (with the setting apart of drifting snow) was only accepted in the thirties.

Subsequently, the determination of different types of snow storms (snowstorm, blowing snow, total blizzard) was repeatedly more precisely formulated. To a certain extent this could unfavorably affect the quality and uniformity of the series of observations of different types of snow storms. In view of the fact that the separation of snow storms into types was not always sufficiently clear and observers were hindered in the determination of the types of snow storms, during climatological processing, all types of snow storms, except drifting snow, were united into one group, and drifting snow was set apart in another group.

A snowstorm, with snow falling from the clouds or without precipitation (blowing snow), is accompanied by the movement of snow downwind in an almost horizontal direction. With blowing snow, the snow rises from the earth, higher than the level of human eyes, in this case it is sometimes possible to see the sky. With drifting snow, the movement of snow by the wind only occurs on the earth's surface, lower than the level of human eyes.

In this section, there is information about the average and greatest number of days with a snow storm for a month and in a year (Table 1 and 1a), about the average number of days of drifting snow

for a month and in a year (Table 2), about the duration of snow storms (Table 3), and also about the frequency of different wind directions and speeds and air temperature with snow storms during a many-year period of observations (Tables 4, 5 and 6). In the indicated tables, a complex of characteristics of snow storms, weather conditions, which accompany a snow storm are given. In Table 7, the frequency of different numbers of days with a snow storm in a year is given. In connection with the fact that observations of snow storms since 1936 has become more complete and more careful, the average number of days with a snow storm during the period 1936-1965 is greater everywhere in the territory in question than the previous period of 1891-1935.

. Table 1. Average number of days with a snow storm.

Table XVII.

Duration of fog (in hours) during a day with fog.

(a) Район	(b) Станция	(c) Период	
		октябрь— (d) март	апрель— (e) сентябрь
(1) Северный и северо-восточный	(2) Калинин	4.5	2.8
Ширакское плато (4) . . .	(3) Иджеван	8.7	7.4
Бассейн оз. Севан (7) . . .	(5) Ленинакан	7.6	3.8
	(6) Дзадзхур, ж. д.	5.4	2.4
	(8) Севан, ГМС	6.9	2.7
	(9) Камо	5.5	3.6
Перевалы (11) . . . . .	(10) Красносельск	6.2	5.1
Арагатская долина (13) . . .	(12) Семеновка	8.2	7.4
	(14) Ереван	5.7	1.6
Зангезур (16) . . . . .	(15) Октемберян	5.3	0.3
	(17) Горис	10.1	8.9
	(18) Кафан	3.9	2.2

Key: (a). Area. (b). Station. (c). Period. (d). October - March. (e). April - September. (1). Northern and northeastern. (2). Kalinin. (3). Idzhevan. (4). Shirak plateau. (5). Leninakan. (6). Dzhadzhur, railroad. (7). Lake Sevan basin. (8). Sevan, GMS. (9). Kama. (10). Krasnosel'sk. (11). Mountain passes. (12). Semenovka. (13). Ararat valley. (14). Yerevan. (15). Oktemberyan. (16). Zangezur. (17). Goris. (18). Kafan.

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Table 1a. Greatest number of days with a snow storm. Table 1 depicts the average number of days with a snow storm for a month and in a year, in the majority of cases, they were obtained by direct calculation from a series of observations of not less than 15 years within the limits of the period 1936-1965. The data of stations with a number of observations of less than 15 years are cited for a more prolonged period by the method of relations with the aid of

correlation graphs. The average number of days with a snow storm is the main characteristic of snow storms.

A day with a snow storm is considered to be a day, during which at least one of the types of snow storms was observed - total blizzard or without precipitation of snow (blowing snow) regardless of whether one type of snow storm or all types were noted during this day, including drifting snow. Not included in this number, are the days when only drifting snow was observed. With the use of the data in Table 1, the location of the station should be considered, since the number of days with a snow storm, besides the general climatic conditions, also depends to a considerable degree on the local characteristics, mainly on the vulnerability of the point.

Thus, for instance, at the open location of the Sevan, GMS station, where high wind speeds and the presence of snow cover are noted, the number of days with a snow storm in a year reach 26, while at the Shorzha station, which is located on the warm shores of Lake Sevan, there are few snow storms there, only 6 days in a year. The Aparan and Yegvard stations can serve as another example. The Aparan station is located on a more elevated and open place than Yegvard, and the number of days with a snow storm on it in a year reaches 14, and at the Yegvard station, only 3 days.

In the territory in question, snow storms are observed predominantly from November through April, less frequently during

October, and in separate areas, snow storms are also noted during May. At the high-mountain stations of Aragats, high-mountain and Yeratumber, snow storms are noted during September and June.

In Table 1a there are the greatest number of days with a snow storm according to a selective network of stations with a series of observations of not less than 18-20 years. The greatest number of days with a snow storm in a month (Table 1a) gives a representation of the possible limits, which snow storm activity can achieve depending on circulation conditions. The smallest number of days with a snow storm in a month during a prolonged period of observations for the majority is equal to zero, i.e., in each of the winter months in separate years, snow storms can be absent.

The number of days with a snow storm must be calculated during the planning of measures for the control of snowdrifts, snow retention, during the organization of cleaning work, etc.

Table 2. Average number of days of drifting snow. In the table there are days, when only drifting snow was observed, and other types of snow storms were not noted during these days. The many-year average number of days with drifting snow is calculated similarly to the data of Table 1 within the limits of the period 1936-1965.

In connection with the fact that establishing the uniformity and reliability of the observations of drifting snow still presents

greater difficulty, than according to the number of days with a snow storm (as a result of the great deal of subjectivism in the account of this phenomenon), in Table 2 there are data for a small number of points (41), which have high-quality and homogeneous observational data of 15-20 years. An exception is the Gukasyan Verin station, for which, observations of 10 years were used. The data of the indicated station are tentative.

Drifting snow, to an even greater degree than common and blowing snow, depends on local conditions - vulnerability of the point, area relief, surface conditions of the snow cover, etc.

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This is easy to trace, based on the example of the Spitak station (Table XVIII), which during July 1959, changed to other physico-geographical conditions.

As can be seen from the table, after moving the station from the foot of the slope onto the slope, the number of days of drifting snow increased.

By blowing snow away from open places and forming obstructing snowdrifts, drifting snow can do great damage to rail transport, motor transport and agricultural fields; therefore they must be considered on a level with blowing snow.

Table 3. Duration of snow storms (hours). The table of the duration of snow storms is a supplement and refinement of Table 1. Given in Table 3 are the sum of the number of hours in a month and in a year, during which snow storms were observed for 16 stations, which have no less than 15-18 years of observations within the limits of the period 1936-1960, also given is the average duration of snow storms during a day by snow storms for a year. This characteristic is obtained by dividing the average annual duration of snow storms into the number of days with a snow storm in a year, calculated during the same period, within which the duration was determined. Between the number of days with a snow storm in a year and their total duration in a year, there is a quite good connection (Fig. 37). Using this graph, it is possible to determine the duration of snow storms for a point, for which there is only the number of days with a snow storm, but there is no duration.

Table 4. Frequency of different wind directions with snow storms (%). In the table, the frequency of different wind directions with snow storms according to eight bearings, expressed in percentages of the number of all cases, is given.

Table XVIII.

Average number of days with drifting snow under various conditions of the location of Spitak station.

(a) Местоположение	XI	XII	I	II	III	IV	(b) Год
(1) Подножие склона . . . . .		0.4	0.7	0.1	0.3		1.5
Склон(2) . . . . .	0.3	0.3	0.8	0.5	1.3	0.2	3.4

Key: (a). Location. (b). Year. (1). Foot of slope. (2). Slope.



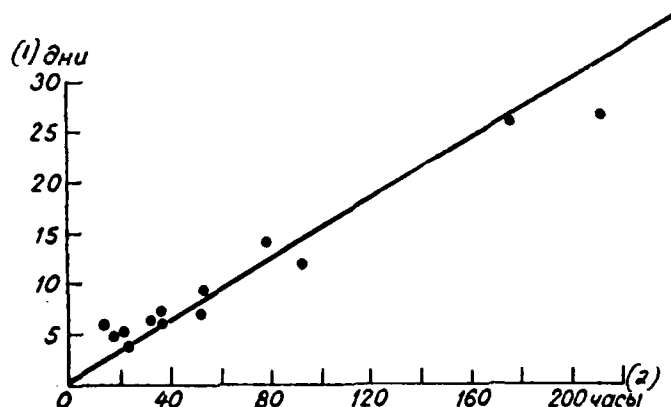


Fig. 37. Connection of the duration of snow storms (hours) and the number of days with a snow storm.

Key: (1). days. (2). hours.

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Processing of the data of the eight stations was performed in a mechanized manner within the period of observations of 1936-1960. In view of the fact that wind direction and speed at the stations are only determined within terms climatological observation (0100, 0700, 1300 and 1900 hours), for calculating the frequency of these characteristics for snow storms, only cases of snow storms are used, which were observed in these periods.

In the territory in question, snow storms are most frequently observed with northern, northeastern, western and southern winds, somewhat less with northwestern, southwestern winds and most rarely with eastern and southeastern winds. Under conditions of broken relief, at separate control posts, the winds during snow storms can

differ from the direction which is characteristic for the area. Shorzha station, which is located on the right shore of Lake Sevan, can serve as an example. The basic wind direction at this station in the winter time is northwestern, and the wind rose during snow storms is strongly elongated to the northeast, and the frequency of northwestern winds during snow storms is rarely observed (Fig. 19).

The account of the data of the frequency of different wind directions during snow storms has vital importance during the planning and installation of wind barriers for railroads, during the cultivation of forested areas, snow retention and other measures.

Table 5. Frequency of different wind speeds during snow storms (%). The frequency of different wind speeds during snow storms is calculated with the aid of analytical computers for the same stations and during the same period of observations, as Table 4. Observations within the climatological periods (0100, 0700, 1300 and 1900 hours) also served as the initial material.

Wind speed during snow storms, even in larger degree than direction, depends on the location of the observation point. Snow storms at wind speeds of 6-9 m/s predominate for the majority of the territory, other gradations of wind speeds are characterized by a low frequency, with the exception of stations located in the Ararat valley, where snow storms are more frequently noted at wind speeds of  $\leq 6$  m/s.

Table 6. Frequency of air temperature within different limits during snow storms (%). The frequency of the air temperature within different limits during snow storms, given in Table 6, is calculated with the aid of analytical computers for the same stations and during the same period of observations, as Tables 4 and 5. In view of the fact that the air temperature, like wind direction and wind speed, was only determined within the established periods of observations (0100, 0700, 1300 and 1900 hours), for calculating its frequency, only cases of snow storms, which were observed in these periods were used.

At low temperatures, snow is lighter, finer-grained and at appropriate wind speeds yields more easily to movement by the wind. During thaws, snow is condensed and loses its mobility. Therefore, snow storms are rarely observed at positive temperatures. The greatest frequency of snow storms is noted at temperatures from 0 to  $-10^{\circ}$ , there are frequent snow storms at temperatures from  $-10$  to  $-15^{\circ}$ , and in the high-mountain areas, they are even observed at temperatures of  $-25$ ,  $-30^{\circ}$ . At stations of the Ararat valley, snow storms are observed at a temperature of  $0^{\circ}$  and higher.

Table 7. Frequency of the different number of days with a snow storm in a year (%). In the table, the frequency of the different number of days with a snow storm in a year, expressed in percentages, is given.

The data of the table are calculated according to 31 stations with a series of observations of not less than 20-25 years within the limits of the period 1936-1965. The frequency of the different number of days with a snow storm supplements and interprets the many-year average number of days with a snow storm, given in Table 1, i.e., it gives a representation of the limits of the variation of the number of days with a snow storm in separate years.

The frequency of the different number of days with a snow storm in separate years should be calculated during the planning of different measures for the control of snowdrifts on roads and organizing work for snow retention in agricultural fields.

#### SECTION 4. THUNDERSTORMS.

Thunderstorms are a dangerous meteorological phenomenon. They are accompanied by strong electrical discharges, which frequently damage communications and power transmission lines, causing fires. The characteristics of thunderstorms are of special interest for aviation.

During the compilation of tables with the different characteristics of thunderstorms, all thunderstorm cases are taken into consideration, near ones and far ones. Cases of heat lightning (when lightning is visible, but thunder, in view of the great distance

of the thunderstorm, is not audible) did not enter into the calculation.

In section 4 of part V of the Handbook there are the following characteristics of thunderstorms: average and greatest number of days with a thunderstorm, average duration of thunderstorms and duration of thunderstorms at different times of day.

Table 1. Average number of days with a thunderstorm. The table depicts the many-year average numbers of days with near and far thunderstorms by months and in a year.

The many-year average number of days with a thunderstorm is calculated from a series of observations of different durations within the limits of the period 1936-1965. The data of 59 stations were acquired by direct calculation, while the data of five stations with numbers of observations of less than nine years are given for a more prolonged period according to a dependence correlation graph between the number of days with thunderstorms at the station in question and a neighboring one with a longer series of observations and similar location.

An exception is the Yeratumber station, for which, observations in 8 years were used, obtained by direct calculation. The data of the indicated station are less precise and can only serve for orientation, but for illuminating the high-mountain area, this station is

necessary.

The quality and uniformity of the series of observations was checked according to a dependence correlation graph.

Numbers less than one in the table mean that thunderstorms were rarely observed.

Table 1a. Greatest number of days with a thunderstorm. In the table there are the greatest number of days with a thunderstorm for a month and in a year for stations with a period of observation of not less than 15 years within the limits of the period 1936-1965 with the exception of the Yeratumber station, for which, the data in 8 years of observations are used and can only serve for orientation.

In connection with the fact that the greatest number of days with a thunderstorm in separate months is observed in different years, the sum of the greatest numbers of days with a thunderstorm in all the months is always more than the greatest number of days with this phenomenon in an entire year.

Table 2. Average duration of thunderstorms (hours).

Table 2a. Duration of thunderstorms at different times of the day (hours).

Table 2 gives the average duration of a thunderstorm for a month and in a year in hours, while Table 2a - the duration of thunderstorms for a month for the individual parts of a day (1800-2400, 2400-0600, 0600-1200, 1200-1800 hours) and in a day (from 1800 hours of the previous day to 1800 hours of the present day). Included in the tables are data from a selective network of stations with a series of observations of not less than 15 years within the limits of the period 1936-1965. Table 2, contains data from 16 stations while Table 2a has 14 stations.

If during the day a thunderstorm was observed several different times, then all cases of thunderstorms were summarized to account for the total duration of thunderstorms during a given day.

The average duration of thunderstorms for a given month is obtained by dividing the sum total of the duration of thunderstorms in a month by hour intervals into the number of years of observations.

For more complete illumination of the question of the duration of thunderstorms, Table 2 also gives the average duration of a thunderstorm during a day with a thunderstorm. This characteristic is obtained by division of the average annual duration of thunderstorms in complete days (from 1800 to 1800 hours) into the average annual number of days with a thunderstorm during the same period (Table 1).

For separation of the duration of thunderstorms at different times of day according to gradations (Table 2a), the following gradations (in hours) are conditionally accepted:

Наблюдалось <sup>(1)</sup>	18.1—24.0	24.1—6.0	6.1—12.0	12.1—18.0
Принятая градация <sup>(2)</sup>	18—24	24—6	6—12	12—18

Key: (1). Observed. (2). Accepted gradation.

## SECTION 5. HAIL.

Table 1. Average number of days with hail.

Table 1a. Greatest number of days with hail. Uses for compilation of the tables were data of meteorological stations, which have no less than 15 years of observations within the limits of the period 1891-1965. The many-year average number of days with hail at 68 stations was obtained by direct calculation.

At the Yeratumber station, which has eight years of observations, there is only the average number of days with hail in a year. The data of the indicated station should be considered to be tentative.

Despite the fact that observations of hailstorms at meteorological stations are conducted according to a single program, the quality of observations at separate stations is not always satisfactory, especially in transition months (March - April, September - October), since frequently, observers in the indicated months confuse hail with graupel. For the selection of reliable data



in such cases, the tables of basic observations were examined (TM-1), moreover, hailstorms, connected with other meteorological elements (thunderstorms, showers, cloud types) and temperature conditions were considered during the analysis. For the evaluation of quality and the establishment of uniformity of the series of observations, the method of the comparison of data of the station in question with the data of the nearest station, having as far as possible similar physicogeographical conditions, was used.

In addition to data of the average number of days with hail, data of the greatest number of days with hail are cited (Table 1a).

The greatest number of days with hail is given according to a selective network of stations during a period of not less than 20 years.

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Exceptions are the data of the Dzhermuk station, located at an elevation of 2066 m above sea level and the Sisian pass station, located at an elevation of 2380 m above sea level, for which, observations for a period of 19 and 16 years respectively were used for a more complete illumination of the territory.

In connection with the fact that the greatest number of days with hail in separate months is observed in different years, the sum of the greatest number of days with hail in all months is more than the

greatest number of days with this phenomenon in a year. The greatest number of days with hail, like the average number of days, is observed in the spring and at the beginning of summer; in high-mountain areas the maximum number of days with hail is noted predominantly in the summer months.

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SECTION 1. CLOUD COVER.

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TABLE 1.

FREQUENCY OF CLEAR (0-2 BALLS), SEMICLEAR (3-7 BALLS) AND CLOUDY (8-10 BALLS) SKY CONDITIONS ACCORDING TO TOTAL AND LOW CLOUD COVER (%).

Облачность (a)/(баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<b>1. Дебедашен (Ламбалу)</b>												
Общая (1a)												
0-2	32	27	21	24	22	33	36	43	38	39	26	31
3-7	16	17	18	17	23	24	23	18	19	17	20	19
8-10	52	56	61	59	55	43	41	39	43	44	54	50
<b>3. Кохб</b>												
Общая (1a)												
0-2	39	33	27	28	30	39	46	50	44	43	32	40
3-7	13	13	12	16	18	18	15	15	13	13	14	11
8-10	48	54	61	56	52	43	39	35	43	44	54	49
<b>4. Шнох</b>												
Общая (1a)												
0-2	33	27	23	23	22	31	34	39	37	37	28	33
3-7	14	14	13	15	20	22	21	20	16	15	14	15
8-10	53	59	64	62	58	47	45	41	47	48	58	52
Нижняя (4a)												
0-2	64	63	50	45	46	48	53	57	51	57	53	65
3-7	9	12	15	17	22	22	19	19	17	13	11	7
8-10	27	25	35	38	32	30	28	24	32	30	36	28
<b>5. Калинино</b>												
Общая (1a)												
0-2	31	26	20	17	16	22	24	30	30	31	26	29
3-7	18	17	16	17	18	22	21	21	18	17	17	19
8-10	51	57	64	66	66	56	55	49	52	52	57	52
Нижняя (4a)												
0-2	56	54	43	33	31	31	35	38	36	45	42	54
3-7	18	20	20	23	26	28	22	24	20	18	19	18
8-10	26	26	37	44	43	41	43	38	44	37	39	28
<b>6. Шурабад</b>												
Общая (1a)												
0-2	29	29	30	31	29	44	54	61	59	49	37	32
3-7	17	17	18	18	20	23	23	21	20	17	18	17
8-10	54	54	52	51	51	33	23	18	21	34	45	51
<b>7. Одзун (Узунлар)</b>												
Общая (1a)												
0-2	35	30	24	24	21	28	32	38	35	37	29	37
3-7	20	19	16	15	22	24	23	22	17	17	16	15
8-10	45	51	60	61	57	48	45	40	48	46	55	48
<b>8. Гукасян Верин</b>												
Общая (1a)												
0-2	18	18	20	23	23	32	46	51	51	43	31	23
3-7	13	14	20	22	23	29	28	28	25	19	21	15
8-10	69	68	60	55	54	39	26	21	24	38	48	62
<b>10. Севкар</b>												
Общая (1a)												
0-2	34	31	23	23	20	29	35	41	36	38	28	35
3-7	13	10	13	12	17	18	18	15	15	14	15	13
8-10	53	59	64	65	63	53	47	44	49	48	57	52

Key: (a). Cloud cover (balls). (1). Debedashen (Lambalu). (1a).  
Total. (3). Kokhb. (4). Shnokh. (4a). Low. (5). Kalinino.  
(6). Shurabad. (7). Odzun (Uzunlar). (8). Gukasyan Verin. (10).  
Sevkar.

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Continuation of Table 1.

Облачность (2) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
11. Степанаван												
(11a) Общая												
0-2	34	30	22	20	18	24	25	30	31	35	28	35
3-7	18	18	15	16	22	24	22	21	17	17	16	16
8-10	48	52	63	64	60	52	53	49	52	48	56	49
(11b) Нижняя												
0-2	57	50	40	33	30	33	32	37	37	47	45	56
3-7	17	19	18	20	26	27	23	20	17	15	15	15
8-10	26	31	42	47	44	40	45	43	46	38	40	29
13. Амасия												
(11a) Общая												
0-2	29	28	28	24	23	35	51	57	57	47	34	31
3-7	16	17	23	24	26	31	23	27	25	22	20	16
8-10	55	53	52	52	51	34	20	16	18	31	46	53
(11b) Нижняя												
0-2	56	58	65	51	42	49	65	67	68	65	58	56
3-7	6	4	7	18	23	25	20	21	19	15	8	5
8-10	38	38	28	33	35	26	15	12	13	20	34	39
15. Узунтала												
(11a) Общая												
0-2	33	29	28	26	28	38	41	47	42	42	29	36
3-7	13	11	11	14	17	16	17	18	13	11	12	11
8-10	54	60	63	60	55	46	42	37	45	47	59	53
(11b) Нижняя												
0-2	64	60	53	49	48	57	61	65	57	61	55	67
3-7	15	4	8	11	14	10	9	10	9	6	5	2
8-10	31	36	39	40	38	35	30	25	34	33	40	31
16. Берд I												
(11a) Общая												
0-2	36	30	26	27	25	36	39	46	42	41	32	37
3-7	11	11	11	13	16	16	17	16	12	11	11	12
8-10	53	59	69	60	59	48	44	38	46	48	57	51
(11b) Нижняя												
0-2	63	58	49	49	44	52	57	62	56	57	52	61
3-7	6	7	8	11	17	15	15	13	10	9	7	6
8-10	31	35	43	40	39	33	28	25	34	34	41	33
16a. Берд II												
(11a) Общая												
0-2	32	29	23	25	23	35	39	45	40	40	28	34
3-7	14	14	15	14	19	19	22	21	15	13	15	11
8-10	54	57	62	61	58	46	39	34	45	47	57	55
17. Джанджур, ж. д.												
(11a) Общая												
0-2	28	27	25	25	24	37	47	55	58	44	32	31
3-7	14	14	16	19	22	29	30	27	22	20	18	14
8-10	58	59	59	56	54	34	23	18	20	36	50	55
(11b) Нижняя												
0-2	50	53	52	50	46	56	68	73	74	65	52	52
3-7	10	9	17	22	30	29	23	19	18	18	19	12
8-10	40	38	31	28	24	15	9	8	8	17	29	36

Key: (a). Cloud cover (balls). (11). Stepanavan. (11a). Total.  
(11b). Low. (13). Amasiya. (15). Uzuntala. (16-16a). Berd ....  
(17). Dzhadzhur, railroad.

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Continuation of Table 1.

Облачность (a)(баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<b>19. Иджеван</b>												
(19a) Общая												
0-2	38	34	24	25	24	32	36	41	38	39	31	40
3-7	11	10	11	11	15	17	15	15	11	11	11	10
8-10	51	56	65	64	61	51	49	44	51	50	58	50
(19b) Нижняя												
0-2	60	58	48	44	40	46	51	55	49	51	48	60
3-7	10	10	14	15	23	21	19	17	13	11	11	9
8-10	30	32	38	41	37	33	30	28	38	38	41	31
<b>20. Спитак</b>												
(19a) Общая												
0-2	32	31	25	24	22	34	40	49	49	42	34	35
3-7	20	16	20	21	26	29	30	26	23	20	19	18
8-10	48	53	55	55	52	37	30	25	28	38	47	47
(19b) Нижняя												
0-2	69	67	57	45	44	49	60	64	60	62	55	66
3-7	7	7	12	21	28	28	24	20	20	14	12	8
8-10	24	26	31	34	28	23	16	16	20	24	33	26
<b>21. Айгедзор</b>												
(19a) Общая												
0-2	38	33	26	27	27	37	40	48	40	38	29	39
3-7	5	3	3	6	7	10	11	9	6	7	7	3
8-10	57	64	71	67	66	53	49	43	54	55	64	58
<b>22. Кировакан</b>												
(19a) Общая												
0-2	37	33	27	22	20	26	27	35	36	39	33	38
3-7	19	18	17	18	22	24	23	22	18	17	16	17
8-10	44	49	56	60	58	50	50	43	46	44	51	45
(19b) Нижняя												
0-2	58	56	45	35	30	31	34	40	40	50	48	55
3-7	17	16	20	21	27	27	24	23	19	17	15	16
8-10	25	28	35	44	43	42	42	37	41	33	37	29
<b>23. Ленинакан</b>												
(19a) Общая												
0-2	24	26	21	22	21	32	48	54	55	43	31	28
3-7	14	10	16	16	20	27	25	24	23	20	14	9
8-10	62	64	63	62	59	41	27	22	22	37	55	63
(19b) Нижняя												
0-2	45	49	50	42	41	49	68	70	72	64	53	42
3-7	12	12	20	32	33	34	22	23	21	22	23	17
8-10	43	39	30	26	26	17	10	7	7	14	24	41
<b>24. Лермонтово</b>												
(19a) Общая												
0-2	36	32	25	22	20	28	26	30	33	37	34	39
3-7	15	13	13	14	18	17	18	18	13	13	13	13
8-10	49	55	62	64	62	55	56	52	54	50	53	48
<b>25. Дилижан</b>												
(19a) Общая												
0-2	37	29	23	21	18	24	26	34	31	34	30	36
3-7	17	18	17	16	20	24	25	22	19	15	15	16
8-10	46	53	60	63	62	52	49	44	50	51	55	48



Key: (a). Cloud cover (balls). (19). Idzhevan. (19a). Total.  
(19b). Low. (20). Spitak. (21). Aygedzor. (22). Kirovakan.  
(23). Leninakan. (24). Lermontov. (25). Dilizhan.

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Continuation of Table 1.

Облачность (a) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(b) Нижняя												
0-2	51	44	36	34	31	37	38	47	39	43	42	52
3-7	31	39	40	46	54	52	49	42	44	39	35	32
8-10	18	17	24	20	15	11	13	11	17	18	23	16
(26a)												
Общая												
0-2	32	28	24	20	19	27	30	35	35	39	35	34
3-7	20	17	18	18	23	24	25	26	21	18	16	17
8-10	48	55	58	62	58	49	45	39	44	43	49	49
(b) Нижняя												
0-2	52	47	42	36	34	35	38	43	41	51	51	55
3-7	17	18	18	19	28	27	25	26	20	16	16	15
8-10	31	35	40	45	38	38	37	31	39	33	33	30
(26a)												
Общая												
0-2	38	31	32	27	26	41	53	57	48	50	36	36
3-7	10	11	11	17	14	15	19	16	29	13	13	13
8-10	52	58	57	56	60	44	28	27	23	37	51	51
(26a)												
Общая												
0-2	32	32	27	24	23	35	42	51	53	43	38	36
3-7	16	14	11	17	18	29	22	22	20	17	14	13
8-10	52	54	62	59	59	36	36	27	27	40	48	51
(b) Нижняя												
0-2	56	51	53	42	43	47	50	58	60	57	55	61
3-7	8	9	10	18	19	26	20	20	18	15	11	9
8-10	36	40	37	40	38	27	30	22	22	28	34	30
(26a)												
Общая												
0-2	29	27	24	23	21	35	46	55	54	46	32	29
3-7	12	13	16	16	21	25	28	23	24	16	15	14
8-10	59	60	60	61	58	40	26	22	22	38	53	57
(26a)												
Общая												
0-2	29	26	26	23	23	38	45	54	59	45	36	32
3-7	14	16	17	18	21	26	27	26	21	19	17	15
8-10	57	58	57	59	56	36	28	20	20	36	47	53
(26a)												
Общая												
0-2	39	34	27	25	24	29	29	38	37	40	36	40
3-7	17	17	15	15	18	23	21	20	15	15	15	15
8-10	44	49	58	60	58	48	50	42	48	45	49	45
(b) Нижняя												
0-2	63	59	51	45	40	38	36	44	42	53	56	63
3-7	14	14	14	17	24	26	21	19	15	14	12	13
8-10	23	27	35	38	36	36	43	37	43	33	32	24
(26a)												
Общая												
0-2	28	25	22	22	22	32	37	46	45	42	33	29
3-7	22	20	20	20	25	30	28	27	27	22	21	20
8-10	50	55	58	58	53	38	35	27	28	36	46	51

Key: (a). Cloud cover. (b). Low. (26). Semenovka. (26a).  
Total. (27). Tsakhkaovit. (28). Ankavan. (29). Artik. (30).  
Aparan. (31). Krasnosel'sk. (32). Lake Sevan GMO.

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Continuation of Table 1.

Облачность (a) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Нижняя (b)												
0-2	53	52	48	43	43	47	52	56	54	62	55	55
3-7	21	23	23	28	30	29	26	23	25	19	21	20
8-10	26	25	29	29	27	24	22	19	21	19	24	25
(33a)												
Общая												
0-2	27	28	21	21	22	34	38	46	48	44	33	29
3-7	18	17	16	18	24	29	29	28	25	21	20	19
8-10	56	60	61	61	54	37	33	26	27	36	47	52
Нижняя (b)												
0-2	35	34	32	31	31	37	43	49	50	5	4	39
3-7	26	24	28	28	39	39	34	32	29	2	2	24
8-10	40	42	40	41	30	24	23	19	21	20	33	37
(33a)												
Общая												
0-2	32	30	24	23	23	39	52	59	61	47	34	32
3-7	16	14	17	19	25	27	27	24	21	19	18	17
8-10	52	56	59	58	52	34	21	17	18	34	48	51
Нижняя (b)												
0-2	60	56	52	47	47	53	67	72	74	66	59	60
3-7	14	14	17	21	26	26	19	18	15	15	13	14
8-10	26	30	31	32	27	21	14	10	11	19	28	26
(33a)												
Общая												
0-2	28	27	24	26	26	41	49	58	59	47	36	32
3-7	13	11	15	16	22	23	23	21	17	18	16	13
8-10	59	62	61	58	52	36	28	21	24	35	48	55
Нижняя (b)												
0-2	49	49	50	44	43	50	57	65	65	62	52	51
3-7	10	9	13	18	23	25	22	16	16	14	13	9
8-10	41	42	37	38	34	25	21	17	19	24	35	40
(33a)												
Общая												
0-2	22	25	24	23	27	37	45	51	54	43	32	25
3-7	19	15	18	18	21	27	25	25	21	21	20	18
8-10	59	60	60	59	52	36	30	24	25	36	48	57
Нижняя (b)												
0-2	43	48	48	46	47	51	59	62	62	62	55	48
3-7	25	22	25	25	31	31	23	24	23	20	21	22
8-10	32	30	27	29	22	18	18	14	15	18	24	30
(33a)												
Общая												
0-2	33	30	26	24	24	37	45	53	58	43	36	37
3-7	11	11	12	13	16	21	21	23	17	15	13	11
8-10	56	59	62	63	60	42	34	24	25	42	51	52
Нижняя (b)												
0-2	49	46	44	41	40	47	50	61	64	58	49	53
3-7	7	7	9	13	18	21	21	20	18	12	9	6
8-10	44	47	47	46	42	22	29	19	20	33	42	41

Key: (a). Cloud cover. (b). Low. (33). Sevan, GMS. (33a).

Total. (34). Garnovit. (35). Razdan. (36). Shorzha. (37).

Aragats, high-mountain.

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Continuation of Table 1.

Облачность (a) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<b>39a) 39. Фонтан</b>												
Общая												
0-2	28	28	21	23	24	30	52	59	61	48	34	82
3-7	14	13	16	19	25	28	28	25	21	19	17	14
8-10	58	61	63	58	51	32	20	16	18	33	49	54
<b>39a) 40. Талий Вёрин</b>												
Общая												
0-2	30	28	25	25	28	47	55	68	67	48	37	82
3-7	13	13	16	18	23	24	24	19	16	19	14	14
8-10	57	59	59	57	49	29	21	15	17	33	49	54
<b>40a) Нижняя</b>												
0-2	58	59	56	50	52	52	72	79	79	65	63	64
3-7	8	6	14	19	25	22	16	11	11	9	8	3
8-10	36	35	30	31	23	16	12	10	10	23	29	33
<b>39a) 42. Кошабулах</b>												
Общая												
0-2	31	31	28	25	29	46	80	67	67	49	36	35
3-7	12	9	14	16	19	22	20	17	15	15	14	11
8-10	57	60	60	59	52	32	20	16	18	36	50	54
<b>40a) Нижняя</b>												
0-2	51	51	49	47	48	87	67	75	74	62	54	65
3-7	9	7	12	15	18	21	18	18	12	11	12	8
8-10	40	42	39	38	34	22	15	10	14	27	34	87
<b>39a) 43. Камо</b>												
Общая												
0-2	26	26	24	25	20	30	34	41	44	41	34	81
3-7	25	22	22	22	28	32	29	31	28	24	24	23
8-10	49	52	54	56	52	38	37	28	28	35	42	46
<b>40a) Нижняя</b>												
0-2	41	40	39	37	34	37	42	46	49	52	49	17
3-7	24	23	25	27	34	36	31	30	27	24	22	22
8-10	35	37	36	36	32	27	27	24	24	24	29	81
<b>39a) 44. Араган, ж. д.</b>												
Общая												
0-2	32	30	26	28	29	50	60	69	69	50	36	83
3-7	13	15	19	19	25	24	23	20	17	20	17	12
8-10	55	55	56	53	46	26	17	11	14	30	47	55
<b>39a) 45. Егвард</b>												
Общая												
0-2	28	27	21	24	24	43	55	62	63	48	35	30
3-7	13	12	15	16	24	24	23	22	20	18	15	10
8-10	61	61	64	60	52	33	22	16	17	34	50	60
<b>40a) Нижняя</b>												
0-2	58	50	47	47	47	80	89	75	76	67	59	49
3-7	6	8	10	14	22	21	19	16	14	14	11	7
8-10	42	44	43	39	31	19	12	9	10	19	30	44
<b>39a) 46. Аштарак</b>												
Общая												
0-2	29	30	27	29	32	34	62	71	72	51	40	82
3-7	14	12	19	21	22	21	22	18	15	20	17	10
8-10	57	58	54	50	46	25	18	11	13	29	43	58

Key: (a). Cloud cover (balls). (39). Fontan. (39a). Total.  
(40). Talin Verin. (40a). Low. (42). Koshabulakh. (43). Kama.  
(44). Aragats, railroad. (45). Yegvard. (46). Ashtarak.

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Continuation of Table 1.

Облачность (а) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(47a) 47. Ератумбер												
Общая												
0-2	27	25	23	18	20	32	34	44	53	43	33	36
3-7	16	12	14	15	22	25	26	26	20	17	13	10
8-10	57	63	63	67	58	43	40	30	27	40	54	54
(47a) 48. Шамиран												
Общая												
0-2	35	33	27	26	33	49	64	71	73	56	39	34
3-7	12	11	19	24	24	26	21	18	15	18	19	12
8-10	53	56	54	50	43	25	15	11	12	26	42	54
(48a) Нижняя												
0-2	55	51	52	50	53	66	77	82	82	74	61	51
3-7	6	7	16	26	26	22	14	12	10	8	10	6
8-10	39	42	32	24	21	12	9	6	8	18	29	43
(47a) 49. Каракерт (Кармрашен)												
Общая												
0-2	33	33	29	28	33	51	62	70	70	54	42	34
3-7	10	9	16	15	19	19	17	13	14	13	12	11
8-10	57	58	55	57	48	30	21	17	16	33	46	55
(47a) 50. Мазра												
Общая												
0-2	30	29	24	24	26	40	49	55	56	44	35	32
3-7	21	18	22	22	25	29	27	26	24	22	22	20
8-10	49	53	54	54	49	31	24	19	20	34	43	48
(48a) Нижняя												
0-2	54	53	50	44	44	48	56	62	61	58	54	55
3-7	25	25	28	31	33	34	30	27	24	24	26	23
8-10	21	22	22	25	23	18	14	11	15	18	20	22
(47a) 51. Ереван, ГМО												
Общая												
0-2	28	29	23	28	30	52	63	67	68	50	34	33
3-7	12	10	16	13	22	19	17	17	13	17	16	8
8-10	60	61	61	59	48	29	20	16	19	33	50	59
(48a) Нижняя												
0-2	51	56	52	50	52	65	75	78	80	70	60	55
3-7	11	10	24	26	27	23	17	16	12	13	18	8
8-10	38	34	24	24	21	12	8	6	8	17	22	37
(47a) 52. Ереван, агро												
Общая												
0-2	28	30	25	27	29	48	59	66	66	51	37	31
3-7	11	11	16	17	25	26	24	20	18	18	15	11
8-10	61	59	59	56	46	26	17	14	16	31	48	58
(48a) Нижняя												
0-2	55	60	57	49	49	63	76	80	81	73	69	59
3-7	11	12	22	29	34	27	18	15	13	15	15	10
8-10	34	28	21	22	17	10	6	5	6	12	16	31
(47a) 53. Джрвеж												
Общая												
0-2	30	31	23	29	31	40	63	69	69	51	37	32
3-7	14	11	22	18	26	28	22	21	15	20	18	13
8-10	56	58	55	53	43	23	15	10	16	29	45	55



Key: (a). Cloud cover (balls). (47). Yeratumber. (47a). Total.  
(48). Shamiran. (48a). Low. (49). Karakert (Karmrashen). (50).  
Mazra. (51). Yerevan, GMO. (52). Yerevan, agricultural. (53).  
Dzhrvezh.

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Continuation of Table 1.

Облачность (a) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(55a)	55. Октемберян											
Общая												
0-2	32	32	27	29	33	54	66	72	73	54	39	33
3-7	9	11	17	17	22	21	18	16	13	16	15	9
8-10	59	57	56	54	45	25	16	12	14	30	46	58
(55b)												
Нижняя												
0-2	54	58	58	58	61	75	83	89	88	76	68	58
3-7	11	12	21	25	27	19	13	8	8	14	16	10
8-10	35	30	21	17	12	6	4	3	4	10	16	32
(55a)	56. Ереван											
Общая												
0-2	28	29	24	28	31	50	64	69	70	53	40	31
3-7	11	14	20	22	27	27	22	21	17	20	18	12
8-10	61	57	56	50	42	23	14	10	13	27	42	57
(55b)												
Нижняя												
0-2	48	51	51	52	56	66	79	83	83	74	66	53
3-7	13	17	25	29	32	26	16	13	12	15	15	11
8-10	39	32	24	19	12	8	5	4	5	11	19	36
(55a)	57. Мартуни I											
Общая												
0-2	34	32	31	28	25	39	42	53	54	43	40	38
3-7	22	18	19	20	22	25	27	28	22	20	20	19
8-10	44	50	50	52	53	36	31	19	24	37	40	43
(55b)												
Нижняя												
0-2	52	48	49	45	41	48	51	59	59	56	56	57
3-7	23	22	21	24	27	27	27	24	22	19	20	19
8-10	25	30	30	31	32	25	22	17	19	25	24	24
(55a)	57a. Мартуни II											
Общая												
0-2	40	35	31	28	30	44	48	57	58	51	43	41
3-7	11	12	13	14	15	20	16	16	15	13	15	11
8-10	49	53	56	58	55	36	36	27	27	36	42	48
(55a)	58. Гарни											
Общая												
0-2	30	28	24	27	31	50	61	68	71	53	39	32
3-7	10	9	13	14	18	20	19	17	13	13	11	8
8-10	60	63	63	59	51	30	20	15	16	34	50	60
(55b)												
Нижняя												
0-2	62	63	58	59	61	69	81	85	84	78	60	59
3-7	7	7	12	15	18	17	13	10	10	8	9	7
8-10	31	30	30	26	21	14	6	5	6	14	22	34
(55a)	59. Ямх											
Общая												
0-2	29	30	21	23	23	38	44	53	56	45	34	36
3-7	22	19	20	23	27	30	32	27	25	24	22	18
8-10	49	51	59	54	50	32	24	20	19	31	44	46
(55b)												
Нижняя												
0-2	47	45	37	41	39	47	51	59	63	58	50	54
3-7	15	16	19	21	29	32	31	26	23	20	18	12
8-10	38	39	44	38	32	21	18	15	14	22	32	34
(55a)	60. Арташат											
Общая												
0-2	27	29	24	28	32	54	68	69	70	51	38	32
3-7	12	11	16	18	22	21	20	19	16	19	16	10
8-10	61	60	60	54	46	25	17	12	14	30	46	58

Key: (a). Cloud cover (balls). (55). Oktemberyan. (55a). Total.  
(55b). Low. (56). Yerevan. (57-57a). Martuni .... (58). Garni.  
(59). Yanykh. (60). Artashat.

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Continuation of Table 1.

Облачность (a) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(b) Нижняя												
0-2	54	53	54	52	53	67	77	80	79	70	62	57
3-7	9	13	19	22	22	18	13	12	13	14	13	8
8-10	37	34	27	26	25	15	10	8	8	16	25	35
(61a) Общая												
0-2	31	26	22	26	31	50	63	69	68	52	39	30
3-7	12	13	16	15	21	24	21	18	17	18	16	12
8-10	57	61	62	59	48	26	16	13	15	30	45	58
(b) Нижняя												
0-2	57	54	54	50	56	86	79	83	82	75	65	53
3-7	14	18	25	28	29	24	16	14	12	15	17	14
8-10	29	28	21	22	15	10	5	3	6	10	18	33
(62a) Общая												
0-2	30	27	20	21	24	40	53	58	56	48	33	31
3-7	15	13	15	16	22	29	25	26	26	20	18	14
8-10	55	60	65	63	54	31	22	16	18	32	49	55
(b) Нижняя												
0-2	58	51	47	43	43	64	64	70	64	61	58	60
3-7	17	16	17	30	30	31	25	22	25	29	16	13
8-10	25	33	36	27	27	15	11	8	11	19	26	27
(64a) Общая												
0-2	27	25	18	21	25	43	57	62	63	50	34	26
3-7	14	13	16	15	21	25	24	23	20	18	16	13
8-10	59	62	66	64	54	32	19	15	17	32	50	61
(b) Нижняя												
0-2	56	53	50	47	50	60	74	77	78	72	62	54
3-7	19	22	28	33	37	31	22	20	17	19	22	16
8-10	25	25	22	20	13	9	4	3	5	9	16	30
(67a) Общая												
0-2	27	26	20	23	30	50	62	69	68	52	37	26
3-7	15	15	19	21	24	29	26	21	20	20	15	13
8-10	58	59	61	56	46	21	12	10	12	28	48	61
(68a) Общая												
0-2	34	31	25	22	23	39	45	50	40	43	38	35
3-7	15	12	14	16	21	23	27	20	20	16	14	16
8-10	51	57	61	62	56	38	28	30	40	41	48	50
(69a) Общая												
0-2	33	29	25	23	27	45	56	63	66	59	41	34
3-7	16	15	17	20	23	27	25	23	18	20	16	16
8-10	51	56	58	67	50	28	19	14	16	38	43	50
(70a) Общая												
0-2	34	28	19	17	22	32	43	48	41	40	33	33
3-7	16	18	17	15	24	26	23	22	18	17	15	16
8-10	50	57	64	68	54	42	34	30	41	43	52	61

Key: (a). Cloud cover (balls). (b). Low. (61). Chimankend.

(61a). Total. (62). Dzhermuk. (64). Yekhegnadzor. (67). Areni.

(68). Bazarchay. (69). Martiros. (70). Sisian pass.

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Continuation of Table 1.

Облачность (а) (баллы)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(б)												
Нижняя												
0-2	52	43	37	32	35	39	49	54	46	50	48	52
3-7	12	13	14	16	24	25	21	20	16	14	14	11
8-10	36	44	49	52	41	36	30	26	38	36	38	37
(71а)												
Общая												
0-2	32	28	20	18	19	34	44	48	41	37	32	33
3-7	25	26	26	25	32	35	31	28	25	24	24	25
8-10	43	46	45	57	49	31	25	24	34	39	44	42
(б)												
Нижняя												
0-2	56	50	42	36	37	45	54	57	44	51	53	57
3-7	20	24	28	32	38	36	29	25	28	22	20	20
8-10	24	26	30	32	25	19	17	18	28	27	27	23
(71а)												
Общая												
0-2	42	36	29	30	25	36	44	49	41	37	36	42
3-7	21	21	20	19	23	21	17	17	14	17	20	17
8-10	37	43	51	51	52	43	39	34	45	46	44	41
(б)												
Нижняя												
0-2	63	58	51	47	41	46	54	57	46	46	53	61
3-7	11	11	12	15	23	22	17	17	14	15	12	10
8-10	26	31	37	38	36	32	29	26	40	39	35	29
(71а)												
Общая												
0-2	42	36	26	22	24	37	42	45	35	37	37	46
3-7	20	16	16	17	19	19	15	13	11	13	15	17
8-10	38	48	58	61	57	44	43	42	54	50	48	37
(71а)												
Общая												
0-2	43	36	24	30	21	34	39	45	32	37	33	43
3-7	18	18	15	15	21	18	15	14	12	13	14	18
8-10	39	46	51	55	58	48	46	41	56	50	53	39
(б)												
Нижняя												
0-2	69	64	44	37	41	47	54	57	39	49	54	71
3-7	6	7	9	12	19	16	14	11	10	8	7	6
8-10	25	29	47	51	40	37	32	32	51	43	39	23
(71а)												
Общая												
0-2	43	37	26	25	27	43	48	51	40	40	36	44
3-7	13	13	12	18	16	16	13	11	10	11	10	11
8-10	44	50	62	62	57	41	39	38	50	49	54	45
(б)												
Нижняя												
0-2	63	58	43	48	47	54	61	61	45	52	52	65
3-7	9	10	13	18	21	19	16	14	14	12	10	7
8-10	28	32	44	34	32	27	23	25	41	36	38	28
(71а)												
Общая												
0-2	37	33	28	30	34	55	60	65	58	50	38	41
3-7	15	16	16	17	20	20	18	17	17	17	14	14
8-10	48	51	56	53	46	25	22	18	25	33	48	45
(б)												
Нижняя												
0-2	63	64	60	56	61	74	80	81	71	68	64	66
3-7	8	8	10	14	20	14	11	10	12	12	8	6
8-10	29	28	30	30	19	12	9	9	17	20	28	28

Key: (a). Cloud cover (balls). (b). Low. (71). Sisian. (71a).  
Total. (72-72a). Goris .... (73). Khotanan Verin. (74). Kafan.  
(77). Megri.

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Table 2.

FREQUENCY OF CLEAR (0-2 BALLS), SEMICLEAR (3-7 BALLS) AND CLOUDY (8-10 BALLS) SKY CONDITIONS ACCORDING TO TOTAL CLOUD COVER AT DIFFERENT HOURS OF THE DAY (%).

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0-2	3-7	8-10	0-2	3-7	8-10	0-2	3-7	8-10
4. Шнох										
I	1	37	11	52	37	17	46	34	13	53
	7	29	16	55	27	19	54	23	17	60
	13	24	20	56	22	21	57	23	20	57
	19	40	11	49	36	17	47	37	15	48
II	1	31	10	59	31	17	52	32	17	51
	7	22	16	62	19	17	64	20	17	63
	13	18	17	65	19	18	63	24	18	58
	19	38	11	51	34	17	49	35	17	48
III	1	32	9	59	28	16	56	34	20	46
	7	20	12	68	15	15	70	22	20	58
	13	13	18	69	17	17	66	21	25	54
	19	27	14	59	21	16	63	25	23	52
IV	1	32	11	57	29	14	57	39	18	43
	7	25	13	62	19	13	68	26	22	52
	13	13	19	68	9	21	70	13	28	59
	19	23	16	61	13	19	68	17	28	55
V	1	35	14	51	30	18	52	41	21	38
	7	28	19	53	24	16	60	31	24	45
	13	11	26	63	5	24	71	7	32	61
	19	13	21	66	6	13	81	13	28	59
VI	1	42	15	43	35	20	45	52	22	26
	7	41	17	42	35	21	44	53	23	24
	13	19	33	48	6	25	69	13	48	39
	19	21	24	55	11	22	67	23	30	47
VII	1	41	14	45	37	16	47	63	20	17
	7	37	17	46	32	16	52	58	24	18
	13	24	30	46	10	27	63	35	48	17
	19	32	24	44	16	24	60	47	26	27
VIII	1	47	14	39	43	16	41	71	16	13
	7	40	17	43	39	16	45	67	21	12
	13	32	27	41	17	32	51	39	49	12
	19	39	20	41	19	20	61	51	23	26
IX	1	43	12	45	38	14	48	71	17	12
	7	37	15	48	35	12	53	63	19	18
	13	29	22	49	24	26	50	37	41	22
	19	37	17	46	22	19	59	56	23	21
X	1	44	13	43	37	16	47	60	16	24
	7	35	14	51	30	15	55	46	22	32
	13	28	18	54	24	22	54	31	28	41
	19	40	15	45	32	17	51	51	21	28
XI	1	33	12	55	31	18	51	46	15	39
	7	23	14	63	21	14	65	31	21	48
	13	19	18	63	19	22	59	22	23	55
	19	35	12	53	32	16	52	39	19	42
XII	1	39	12	49	37	17	46	39	13	48
	7	28	16	56	21	20	59	25	19	56
	13	25	19	56	21	20	59	23	18	59
	19	41	11	48	37	18	45	37	13	50



Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (4).  
Shnokh. (5). Kalinino. (13). Amasiya.

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Continuation of Table 2.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0-2	3-7	8-10	0-2	3-7	8-10	0-2	3-7	8-10
		22. Кировакан			23. Леннинакан			25. Дилижан		
I	1	45	16	39	30	12	58	43	16	41
	7	33	20	47	16	13	71	34	17	49
	13	25	24	51	16	19	65	27	20	53
	19	45	15	40	36	10	54	44	14	42
II	1	42	14	44	33	8	59	36	17	47
	7	26	19	55	15	13	72	25	17	58
	13	24	20	56	18	9	73	20	20	60
	19	42	16	42	36	13	51	35	17	48
III	1	39	13	48	34	14	52	34	13	53
	7	21	16	63	15	14	71	20	16	64
	13	21	20	59	10	19	71	15	21	64
	19	27	17	56	25	17	58	22	17	61
IV	1	33	13	54	39	14	47	33	13	54
	7	25	14	61	22	15	63	23	13	64
	13	12	25	63	10	17	73	11	21	68
	19	17	20	63	17	18	65	15	18	67
V	1	34	17	49	41	23	36	34	16	50
	7	28	19	53	29	14	57	27	18	55
	13	9	31	60	6	24	70	5	28	67
	19	8	22	70	9	18	73	8	16	76
VI	1	40	17	43	51	22	27	39	18	43
	7	40	17	43	46	22	32	37	19	44
	13	11	38	51	14	37	49	9	37	54
	19	13	22	65	19	26	55	12	23	65
VII	1	41	15	44	66	14	20	37	17	46
	7	35	19	46	54	20	26	35	16	49
	13	18	33	49	29	42	29	16	42	42
	19	14	26	60	41	26	33	18	23	59
VIII	1	44	16	40	70	13	17	42	17	41
	7	43	15	42	63	19	18	39	16	45
	13	29	35	36	39	42	19	26	38	36
	19	25	23	52	45	23	32	27	19	54
IX	1	42	13	45	72	12	16	38	12	50
	7	39	12	49	59	23	18	35	15	50
	13	32	31	37	37	43	20	23	33	44
	19	29	16	55	52	15	33	27	16	57
X	1	49	11	40	58	14	28	43	12	45
	7	36	14	50	40	19	41	35	13	52
	13	29	28	43	28	23	49	23	24	53
	19	42	15	43	47	24	29	36	12	52
XI	1	41	13	46	42	13	45	39	10	51
	7	27	15	58	25	12	63	26	15	59
	13	26	21	53	20	15	65	21	21	58
	19	39	15	46	37	16	47	35	15	50
XII	1	46	15	39	35	9	56	44	13	43
	7	33	19	48	19	12	69	30	19	51
	13	28	19	53	20	8	72	25	20	55
	19	45	15	40	36	9	55	44	14	42

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (22).  
Kirovakan. (23). Leninakan. (25). Dilizhan.



Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (26).  
Semenovka. (33). Sevan, GMS. (34). Garnovit.

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Continuation of Table 2.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
		35. Раздан			36. Шоржа			37. Арагац, высокогорная		
I	1	31	11	58	23	19	58	39	10	51
	7	24	13	63	17	17	66	30	11	59
	13	26	14	60	17	22	61	26	12	62
	19	33	11	56	31	19	50	38	11	51
II	1	31	10	59	29	17	54	35	11	54
	7	22	12	66	16	13	71	25	10	65
	13	22	13	65	20	18	62	24	10	66
	19	33	10	57	34	15	51	37	10	53
III	1	33	12	55	32	16	52	35	10	55
	7	20	15	65	17	15	68	24	10	66
	13	18	17	65	19	16	65	20	11	69
	19	24	15	61	26	17	57	26	16	58
IV	1	38	14	48	32	19	49	35	13	52
	7	28	14	58	25	14	61	25	9	66
	13	14	20	66	15	22	63	16	16	68
	19	22	16	62	19	16	65	19	14	67
V	1	42	15	43	39	18	43	36	16	48
	7	36	18	46	36	16	48	32	12	56
	13	12	34	54	17	31	52	15	22	63
	19	15	21	64	15	18	67	13	15	72
VI	1	53	15	32	49	20	31	53	15	32
	7	56	16	28	49	22	29	53	14	33
	13	25	41	34	24	44	32	16	31	53
	19	29	22	49	27	22	51	27	23	50
VII	1	57	15	28	50	15	35	63	13	24
	7	56	18	26	48	21	31	58	16	26
	13	39	41	20	42	41	17	21	31	48
	19	44	20	36	41	22	37	40	24	36
VIII	1	64	12	24	54	18	28	71	13	16
	7	64	17	19	52	22	26	65	16	19
	13	48	37	15	51	35	14	29	35	36
	19	54	19	27	47	25	28	48	26	26
IX	1	67	10	23	61	15	24	73	10	17
	7	61	15	24	49	21	30	65	13	22
	13	49	27	24	48	34	18	33	29	38
	19	57	17	26	59	14	27	60	17	23
X	1	57	14	29	51	20	29	53	12	35
	7	45	17	38	38	21	41	43	15	42
	13	33	27	40	34	26	40	26	19	55
	19	55	13	32	49	18	33	49	14	37
XI	1	44	12	44	41	13	46	43	10	47
	7	30	16	54	25	20	55	34	13	53
	13	26	22	52	25	24	51	27	15	58
	19	43	15	42	38	21	41	40	13	47
XII	1	36	11	53	30	16	54	43	10	47
	7	27	15	58	18	13	69	31	14	55
	13	27	14	59	19	21	60	30	10	60
	19	39	11	50	34	20	46	43	9	48

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (35).

Razdan. (36). Shorzha. (37). Aragats, high-mountain.

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Continuation of Table 2.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
40. Таллин Верин					43. Камо			50. Мазра		
I	1	37	13	50	31	25	44	36	22	42
	7	25	11	64	19	25	56	24	20	56
	13	22	14	64	20	27	53	25	18	57
	19	38	13	49	36	21	43	34	25	41
II	1	35	13	52	33	22	45	35	19	46
	7	20	13	67	17	19	64	22	17	61
	13	21	14	65	19	25	56	24	17	59
	19	37	13	50	34	22	44	34	21	45
III	1	36	17	47	32	23	45	32	24	44
	7	20	15	65	21	19	60	21	20	59
	13	14	18	68	17	24	59	19	22	59
	19	29	16	55	26	24	50	25	22	53
IV	1	38	17	45	33	20	47	35	22	43
	7	28	12	60	24	19	57	24	20	56
	13	13	21	66	12	25	63	16	22	62
	19	21	20	59	17	26	57	21	23	56
V	1	45	20	35	33	27	40	40	23	37
	7	35	19	46	30	26	44	36	21	43
	13	15	31	54	9	34	57	15	34	51
	19	15	23	62	10	25	65	15	22	63
VI	1	60	17	23	43	26	31	51	25	24
	7	61	17	22	46	23	31	58	20	22
	13	34	39	27	14	48	38	23	44	33
	19	31	24	45	18	31	51	27	29	44
VII	1	66	16	18	42	22	36	55	20	25
	7	62	18	20	40	23	37	60	20	20
	13	47	37	16	26	45	29	39	40	21
	19	45	26	29	26	29	45	41	30	29
VIII	1	73	15	12	48	22	30	63	21	16
	7	71	16	13	45	26	29	64	17	19
	13	64	24	12	33	45	22	42	40	18
	19	55	22	23	38	30	32	52	27	21
IX	1	76	11	13	53	21	26	64	19	17
	7	70	14	16	45	25	30	61	19	20
	13	61	23	16	33	41	26	43	34	23
	19	62	16	22	46	24	30	55	23	22
X	1	56	17	27	50	21	29	53	20	27
	7	45	19	36	39	23	38	43	18	39
	13	36	28	36	27	32	41	34	25	41
	19	54	14	32	46	21	33	48	23	29
XI	1	46	13	41	42	20	38	41	22	37
	7	31	12	57	30	25	45	30	23	47
	13	25	18	57	24	27	49	28	22	50
	19	46	13	41	40	22	38	41	22	37
XII	1	39	13	48	37	23	40	38	19	43
	7	26	14	60	23	25	52	26	22	52
	13	22	16	62	25	21	54	25	20	55
	19	42	13	45	39	23	38	39	19	42



Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (40).

Talin Verin. (43). Kama. (50). Mazra.

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Continuation of Table 2.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
55. Октемберян										
I	1	35	8	57	31	10	59	35	23	42
	7	25	9	66	21	11	68	25	23	52
	13	27	12	61	25	12	63	24	20	56
	19	39	9	52	34	12	54	34	21	45
II	1	38	6	56	36	10	54	35	20	45
	7	23	11	66	23	16	61	24	17	59
	13	24	17	59	23	16	61	24	22	54
	19	41	11	48	35	15	50	36	19	45
III	1	39	14	47	35	16	49	28	21	51
	7	21	16	63	20	19	61	17	20	63
	13	19	20	61	16	23	61	17	18	65
	19	28	18	54	27	20	53	23	21	56
IV	1	43	13	44	41	22	37	32	25	43
	7	29	13	58	29	17	54	25	20	55
	13	20	24	56	21	26	53	16	23	61
	19	25	17	58	22	22	56	21	24	55
V	1	46	22	32	45	22	33	36	24	40
	7	39	18	43	37	21	42	32	25	43
	13	27	29	44	26	36	38	10	33	57
	19	18	21	61	17	26	57	16	24	60
VI	1	63	18	19	61	20	19	50	26	24
	7	63	17	20	61	19	20	57	19	24
	13	53	27	20	51	35	14	18	44	38
	19	35	25	40	28	32	40	29	30	41
VII	1	72	13	15	71	16	13	54	25	21
	7	67	16	17	66	19	15	53	24	23
	13	72	21	7	72	22	6	30	46	24
	19	52	24	24	49	29	22	39	35	26
VIII	1	78	12	10	75	15	10	63	18	19
	7	74	14	12	69	20	11	60	22	18
	13	78	17	5	75	20	5	38	42	20
	19	57	23	20	57	27	16	50	29	21
IX	1	78	12	10	78	12	10	65	20	15
	7	73	12	15	69	14	17	65	18	17
	13	77	12	11	72	19	9	40	38	22
	19	65	17	18	60	24	16	56	24	20
X	1	63	12	25	62	14	24	55	22	23
	7	49	17	34	47	23	30	45	21	34
	13	47	21	32	47	24	29	29	30	41
	19	59	14	27	55	19	26	52	22	26
XI	1	48	13	39	46	16	38	38	23	39
	7	31	15	54	33	20	47	31	22	47
	13	31	18	51	33	21	46	26	22	52
	19	47	15	38	46	15	39	43	20	37
XII	1	38	10	52	36	10	54	41	18	41
	7	28	8	64	27	12	61	30	22	48
	13	25	12	63	25	15	60	30	15	55
	19	41	8	51	35	14	51	43	19	38

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (55).  
Oktemberyan. (56). Yerevan. (59). Yanykh.

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Continuation of Table 2.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0-2	3-7	8-10	0-2	3-7	8-10	0-2	3-7	8-10
		64. Ехегнадзор.			71. Сиснан			72. Горис 1		
I	1	32	14	54	36	26	38	51	17	32
	7	22	12	66	28	25	47	39	24	37
	13	21	13	66	26	26	48	34	25	41
	19	33	17	50	38	24	38	43	17	40
II	1	30	12	58	34	25	41	45	15	40
	7	20	11	69	22	27	51	30	25	45
	13	18	13	69	23	26	51	29	25	46
	19	31	17	52	34	26	40	38	20	42
III	1	28	16	56	26	27	47	40	15	45
	7	18	13	69	19	22	59	28	19	53
	13	8	17	75	14	29	57	21	25	54
	19	20	17	63	22	26	52	28	19	53
IV	1	33	14	53	27	26	47	43	14	43
	7	23	14	63	20	20	60	33	18	49
	13	10	17	73	9	29	62	19	25	56
	19	17	15	68	16	26	58	24	19	57
V	1	35	25	40	29	30	41	39	17	44
	7	37	13	50	27	28	45	35	18	47
	13	13	29	58	8	40	52	13	33	54
	19	14	16	70	13	28	59	13	22	65
VI	1	51	20	29	44	27	29	47	14	39
	7	58	16	26	44	27	29	49	14	37
	13	31	42	27	22	52	26	26	33	41
	19	32	23	45	27	34	39	23	21	56
VII	1	64	19	17	50	23	27	51	11	38
	7	65	16	19	42	25	33	45	13	42
	13	51	36	13	41	47	12	42	26	32
	19	49	25	26	44	29	27	37	18	45
VIII	1	71	15	14	54	18	28	54	13	33
	7	69	15	16	43	20	37	50	14	36
	13	54	36	10	46	46	8	48	26	26
	19	54	26	20	50	28	22	46	15	39
IX	1	71	14	15	39	17	44	45	9	46
	7	66	16	18	35	15	50	42	11	47
	13	53	33	14	41	45	14	37	26	37
	19	61	18	21	49	22	29	38	11	51
X	1	60	14	26	40	19	41	45	13	42
	7	48	13	39	32	20	48	36	17	47
	13	38	25	37	32	33	35	30	27	43
	19	55	20	25	45	23	32	38	12	50
XI	1	41	16	43	36	20	44	45	15	40
	7	29	12	59	27	22	51	32	23	45
	13	25	19	56	25	29	46	28	28	44
	19	40	18	42	40	24	36	40	14	46
XII	1	31	13	56	38	24	38	48	16	36
	7	20	11	69	28	27	45	42	20	38
	13	19	13	68	27	25	48	34	21	45
	19	34	15	51	39	24	37	45	12	43

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (64).

Yekhegnadzor. (71). Sisian. (72). Goris 1.

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Continuation of Table 1.

(a) Месяц	(б) Часы	(c) Облачность (баллы)					
		0—2	3—7	8—10	0—2	3—7	8—10
74. Кафан							
I	1	49	10	41	45	10	45
	7	39	12	49	28	17	55
	13	38	16	46	30	19	51
	19	47	12	41	46	15	39
II	1	45	9	46	41	13	46
	7	31	12	57	26	15	59
	13	30	18	52	26	19	55
	19	41	12	47	40	17	43
III	1	36	8	56	35	14	51
	7	24	10	66	24	12	64
	13	21	18	61	21	24	55
	19	25	11	64	31	16	53
IV	1	36	12	52	40	16	44
	7	26	8	66	29	12	59
	13	17	19	64	23	24	53
	19	20	12	68	27	16	57
V	1	41	14	45	48	18	34
	7	36	11	53	37	18	45
	13	19	25	56	30	27	43
	19	13	15	72	20	20	60
VI	1	51	12	37	60	16	24
	7	54	12	34	61	16	23
	13	41	23	36	59	26	15
	19	27	15	58	38	23	39
VII	1	55	8	37	63	14	23
	7	48	12	40	58	15	27
	13	51	17	32	70	21	9
	19	40	14	46	51	21	28
VIII	1	55	9	36	70	12	18
	7	49	9	42	60	18	22
	13	55	15	30	73	18	9
	19	44	13	43	57	20	23
IX	1	41	9	50	61	14	25
	7	40	7	53	51	14	35
	13	42	17	41	66	20	14
	19	36	8	56	56	16	28
X	1	47	8	45	57	13	30
	7	36	10	54	41	14	45
	13	36	19	45	48	23	29
	19	40	9	51	55	16	29
XI	1	42	6	52	44	11	45
	7	30	9	61	28	23	59
	13	32	15	53	35	18	47
	19	38	10	52	46	13	41
XII	1	52	8	40	49	11	40
	7	39	12	49	33	14	53
	13	36	15	49	30	18	52
	19	48	9	43	51	14	35

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (74).

Kafan. (77). Megri.

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TABLE 3.

FREQUENCY OF CLEAR (0-2 BALLS), SEMICLEAR (3-7 BALLS) AND CLOUDY (8-10 BALLS) SKY CONDITIONS ACCORDING TO LOW CLOUD COVER AT DIFFERENT HOURS OF THE DAY (%).

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
4. Шнох										
I	1	65	4	31	57	14	29	59	14	27
	7	63	10	27	51	21	28	55	17	28
	13	62	14	24	58	22	20	58	22	20
	19	68	6	26	56	16	28	61	13	26
II	1	66	5	29	55	16	29	58	12	30
	7	60	14	26	49	22	29	52	16	32
	13	56	22	22	57	22	21	55	21	24
	19	70	7	23	55	22	23	58	14	28
III	1	57	8	35	45	15	40	47	13	40
	7	51	12	37	39	18	43	45	19	36
	13	39	26	35	45	26	29	43	29	28
	19	55	15	30	42	20	38	45	18	37
IV	1	58	7	35	40	16	44	42	12	46
	7	51	9	40	42	16	42	42	18	40
	13	27	32	41	21	33	46	26	31	43
	19	45	19	36	29	29	42	30	22	48
V	1	61	10	29	42	17	41	38	18	44
	7	61	13	26	51	15	34	49	17	34
	13	25	39	36	12	41	47	14	42	44
	19	36	29	35	21	30	49	21	30	49
VI	1	63	9	28	43	22	35	42	17	41
	7	62	12	26	51	18	31	48	19	33
	13	28	38	34	9	36	55	13	45	42
	19	40	27	33	21	35	44	21	28	51
VII	1	64	8	28	47	15	38	46	14	40
	7	56	15	29	50	12	38	46	16	38
	13	38	33	29	16	32	52	23	36	41
	19	55	20	25	26	29	45	21	29	50
VIII	1	68	10	22	51	15	34	48	15	37
	7	60	14	26	51	17	32	53	14	33
	13	43	30	27	22	36	42	31	38	31
	19	56	22	22	28	27	45	28	25	47
IX	1	63	8	29	46	12	42	47	12	41
	7	52	13	35	45	12	43	48	10	42
	13	37	27	36	29	29	42	34	35	31
	19	52	18	30	25	26	49	32	17	51
X	1	65	8	27	49	13	38	55	11	34
	7	55	12	33	47	14	39	52	12	36
	13	48	21	31	41	29	30	45	29	26
	19	62	11	27	43	16	41	48	16	36
XI	1	57	6	37	44	15	41	49	11	40
	7	52	10	38	40	17	43	45	12	43
	13	46	18	36	40	28	32	48	22	30
	19	57	9	34	43	17	40	50	14	36
XII	1	67	4	29	55	16	29	58	12	30
	7	62	8	30	51	18	31	52	17	31
	13	63	12	25	54	24	22	53	22	25
	19	67	6	27	56	14	30	57	13	30



Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (4).  
Shnokh. (5). Kalinino. (22). Kirovakan.



Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (23).  
Leninakan. (25). Dilizhan. (33). Sevan, GMS.

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Continuation of Table 3.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
34. Гарновит										
I	1	62	15	23	49	8	43	45	21	34
	7	56	16	28	43	11	46	35	27	38
	13	58	16	26	54	12	34	42	31	27
	19	62	12	26	50	8	42	50	22	28
II	1	56	13	31	51	6	43	49	22	29
	7	51	17	32	44	10	46	41	20	39
	13	55	16	29	52	12	36	48	26	26
	19	61	10	29	51	7	42	56	19	25
III	1	57	17	26	51	10	39	53	21	26
	7	53	17	30	47	12	41	42	25	33
	13	44	21	35	52	16	32	42	33	25
	19	54	14	32	49	15	36	53	22	25
IV	1	56	17	27	54	11	35	54	17	29
	7	56	16	28	52	12	36	54	16	30
	13	33	27	40	31	25	44	37	36	27
	19	42	26	32	41	22	37	41	31	28
V	1	58	18	24	50	14	36	55	21	24
	7	66	15	19	62	13	25	63	16	21
	13	29	39	32	24	38	38	32	51	17
	19	33	33	34	37	26	37	39	34	27
VI	1	67	16	17	60	14	26	63	16	21
	7	76	13	11	66	16	18	66	18	16
	13	30	45	25	28	45	27	31	56	13
	19	38	32	30	44	26	30	44	35	21
VII	1	78	12	10	62	14	24	58	19	23
	7	82	9	9	68	14	18	68	13	19
	13	48	35	17	45	40	15	55	37	8
	19	59	22	19	54	21	25	55	24	21
VIII	1	83	10	7	68	11	21	64	14	22
	7	86	9	5	75	11	14	66	17	17
	13	54	34	12	54	34	12	58	37	5
	19	64	21	15	61	17	22	59	27	14
IX	1	83	10	7	71	10	19	67	18	15
	7	83	9	8	71	11	18	58	21	21
	13	59	29	12	54	29	17	56	36	8
	19	71	13	16	64	15	21	66	19	15
X	1	73	10	17	67	9	24	68	16	16
	7	71	12	17	63	12	25	58	21	21
	13	55	23	22	52	24	24	55	30	15
	19	67	14	19	64	11	25	66	16	18
XI	1	67	9	24	56	10	34	60	17	23
	7	59	12	29	48	13	39	50	21	29
	13	49	20	31	48	19	33	50	30	20
	19	62	11	27	55	11	34	59	18	23
XII	1	63	12	25	50	7	43	49	20	31
	7	58	14	28	46	11	43	44	23	33
	13	57	16	27	55	10	35	45	28	27
	19	63	12	25	53	9	38	53	20	27

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (34).  
Garnovit. (35). Razdan. (36). Shorzha.

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Continuation of Table 3.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
37. Арагац, высокогорная				43. Камо			50. Мазра			
I	1	50	7	43	43	22	35	58	22	20
	7	47	8	45	34	27	39	49	26	25
	13	48	7	45	39	28	33	55	26	19
	19	51	7	42	47	21	32	55	24	21
II	1	48	6	46	45	20	35	56	19	25
	7	44	8	48	32	23	45	49	29	22
	13	44	7	49	38	28	34	53	28	19
	19	50	8	42	47	20	33	52	24	24
III	1	49	7	44	43	20	37	55	25	20
	7	44	9	47	39	23	38	49	29	22
	13	40	8	52	34	31	35	47	31	22
	19	44	11	45	41	24	35	48	27	25
IV	1	49	8	43	44	19	37	51	26	23
	7	46	9	45	44	21	35	51	26	23
	13	34	17	49	25	37	38	32	40	28
	19	36	17	47	34	30	36	42	31	27
V	1	49	13	38	42	26	32	53	26	21
	7	52	10	38	51	24	25	63	20	17
	13	28	26	46	16	50	34	26	50	24
	19	30	25	45	26	37	37	35	36	29
VI	1	62	15	23	49	26	25	60	24	16
	7	65	10	25	57	22	21	69	19	12
	13	22	33	45	17	55	28	24	53	23
	19	40	27	33	26	42	32	37	40	23
VII	1	72	5	23	50	17	33	61	22	17
	7	69	14	17	51	21	28	69	22	9
	13	21	35	44	82	50	18	43	44	13
	19	38	30	32	35	35	30	50	33	17
VIII	1	78	10	12	53	19	28	69	21	10
	7	76	11	13	55	21	24	73	18	9
	13	34	34	32	35	49	16	45	43	12
	19	57	25	18	43	31	26	60	25	15
IX	1	79	7	14	56	19	25	70	17	13
	7	74	9	17	53	20	27	69	18	13
	13	37	31	32	37	44	19	45	38	17
	19	66	17	17	50	26	24	61	23	16
X	1	61	9	30	58	19	23	63	19	18
	7	59	11	30	55	23	22	61	21	18
	13	40	18	42	40	35	25	47	35	18
	19	58	11	31	56	19	25	61	20	19
XI	1	52	6	42	53	17	30	58	22	20
	7	51	8	41	49	23	28	51	29	20
	13	44	12	44	41	31	28	49	30	21
	19	50	10	40	54	18	28	56	24	20
XII	1	55	5	40	48	22	30	59	20	21
	7	50	8	42	41	24	35	52	26	22
	13	50	7	43	46	24	30	52	25	23
	19	55	5	40	53	17	30	57	21	22

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (37).

Aragats, high-mountain. (43). Kama. (50). Mazra.

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Continuation of Table 3.

(a) Месяц	(b) Часы	(c) Облачность (баллы)								
		0—2	3—7	8—10	0—2	3—7	8—10	0—2	3—7	8—10
56. Ереван					72. Горис I			74. Кафан		
I	1	51	9	40	66	10	24	63	7	30
	7	35	15	50	64	11	25	69	10	31
	13	51	15	34	64	14	22	67	14	19
	19	54	13	33	58	10	32	62	7	31
II	1	57	12	31	61	9	30	60	6	34
	7	41	19	40	57	12	31	57	9	34
	13	51	20	29	59	16	25	58	19	23
	19	56	16	28	56	8	36	59	5	36
III	1	62	14	24	55	9	36	45	8	47
	7	52	22	26	53	12	35	45	10	45
	13	41	35	24	50	17	33	44	24	32
	19	50	27	23	45	13	42	39	11	50
IV	1	67	15	18	55	9	36	53	11	36
	7	57	24	19	54	10	36	53	11	36
	13	41	42	17	38	25	37	42	31	27
	19	41	36	23	41	17	42	43	18	39
V	1	66	20	14	51	15	34	56	13	31
	7	69	21	10	56	14	30	60	12	28
	13	50	42	8	28	38	34	38	37	25
	19	37	46	17	30	26	44	34	23	43
VI	1	76	17	7	53	14	33	60	14	26
	7	79	15	6	60	13	27	65	12	23
	13	66	31	3	34	37	29	49	30	21
	19	43	43	14	35	24	41	41	22	37
VII	1	83	11	6	58	11	31	64	11	25
	7	84	12	4	57	14	29	64	11	25
	13	84	14	2	53	23	24	61	25	14
	19	65	27	8	49	20	31	53	18	29
VIII	1	87	9	4	61	11	28	64	9	27
	7	87	10	3	59	14	27	61	13	26
	13	88	11	1	55	27	18	63	20	17
	19	69	24	7	53	16	31	55	14	31
IX	1	88	7	5	49	8	43	46	9	45
	7	85	11	4	49	11	40	48	11	41
	13	85	12	3	44	25	31	47	23	30
	19	73	19	8	44	11	45	40	11	49
X	1	79	10	11	51	10	39	55	8	37
	7	72	17	11	48	16	36	53	9	38
	13	74	16	10	44	23	33	52	23	25
	19	72	15	13	42	11	47	48	8	44
XI	1	72	10	18	55	9	36	52	6	42
	7	58	18	24	54	13	33	50	9	41
	13	66	17	17	51	17	32	55	17	28
	19	69	15	16	51	9	40	50	10	40
XII	1	58	7	35	62	10	28	65	5	30
	7	46	13	41	61	11	28	61	7	32
	13	52	15	33	62	13	25	70	12	18
	19	55	10	35	59	8	33	63	6	31



Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (56).

Yerevan. (72). Goris 1. (74). Kafan.

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Continuation of Table 3.

(a) Месяц	(b) Часы	(c) Облачность (баллы)			(a) Месяц	(b) Часы	(c) Облачность (баллы)		
		0—2	3—7	8—10			0—2	3—7	8—10
77. Мегри									
I	1	64	4	32	VII	1	80	8	12
	7	56	9	35		7	81	8	11
	13	64	12	24		13	87	9	4
	19	66	8	26		19	71	18	11
II	1	66	5	29	VIII	1	83	6	11
	7	57	8	35		7	82	7	11
	13	65	14	21		13	89	9	2
	19	67	7	26		19	71	18	11
III	1	61	5	34	IX	1	73	9	18
	7	56	10	34		7	65	13	22
	13	63	17	20		13	80	13	7
	19	60	10	30		19	64	15	21
IV	1	59	8	33	X	1	70	8	22
	7	57	10	33		7	60	14	26
	13	55	22	23		13	72	18	10
	19	53	15	32		19	68	10	22
V	1	67	12	21	XI	1	66	5	29
	7	69	13	18		7	57	12	31
	13	58	28	14		13	67	11	22
	19	51	26	23		19	64	6	31
VI	1	76	9	15	XII	1	69	5	26
	7	81	7	12		7	59	7	34
	13	78	16	6		13	66	8	26
	19	62	22	16		19	70	5	25

Key: (a). Month. (b). Hours. (c). Cloud cover (balls). (77).  
Megri.

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TABLE 4.

NUMBER OF CLEAR AND CLOUDY DAYS ACCORDING TO TOTAL AND LOW CLOUD COVER.

(a) Дни	(b) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
1. Дебедашен (Ламбалу)														
Ясные (1a)	Общая (1b)	5.2	3.4	2.7	3.6	1.5	4.4	7.2	7.5	7.4	7.7	4.2	5.6	60
Пасмурные (1c)	Общая (1b)	11.1	10.8	13.2	13.6	11.8	8.0	8.6	6.3	9.1	9.7	11.7	10.3	124
3. Кокхб														
Ясные (1a)	Общая (1b)	6.2	3.6	3.4	3.6	2.8	5.0	8.7	10.0	8.2	8.4	5.1	6.6	72
Пасмурные (1c)	Общая (1b)	8.1	9.0	11.7	11.0	10.2	6.0	6.6	5.4	8.0	8.0	9.6	8.5	102
4. Шнох														
Ясные (1a)	Общая (1b)	4.9	3.0	2.5	2.7	1.9	4.0	5.4	7.1	6.2	6.5	4.0	5.1	53
Пасмурные (1c)	Общая (1b)	15.4	12.9	11.3	8.5	7.4	9.4	11.5	12.6	10.0	13.4	11.4	15.3	139
	Нижняя (4a)	10.4	10.9	13.8	13.5	12.3	8.9	8.6	7.4	8.7	9.5	12.0	10.5	126
	Нижняя (4a)	4.2	3.1	5.8	6.6	4.0	3.7	3.7	2.9	4.5	4.6	6.4	4.3	54
5. Калинин														
Ясные (1a)	Общая (1b)	4.4	3.0	1.8	1.7	1.2	1.4	2.6	4.1	4.0	4.8	3.4	4.2	37
	Нижняя (4a)	12.1	9.7	6.6	5.0	2.7	2.5	3.7	5.6	5.1	8.3	8.0	11.1	80
Пасмурные (1c)	Общая (1b)	8.7	9.4	14.2	15.1	14.1	11.0	11.6	9.0	9.8	9.8	11.6	9.2	134
	Нижняя (4a)	3.4	2.6	6.3	8.8	6.6	5.8	8.1	6.8	8.4	6.3	7.2	3.7	74
6. Шурабад														
Ясные (1a)	Общая (1b)	4.2	4.0	4.8	5.5	4.0	7.1	11.3	14.2	12.3	10.3	6.8	5.4	90
Пасмурные (1c)	Общая (1b)	11.8	10.4	10.9	10.5	9.6	4.3	2.6	1.6	2.3	5.7	8.9	10.5	89
7. Одзун (Узунлар)														
Ясные (1a)	Общая (1b)	5.3	4.4	2.8	3.6	1.4	3.4	5.4	6.4	5.6	6.2	4.6	6.2	55
Пасмурные (1c)	Общая (1b)	8.3	8.9	12.6	13.3	12.2	9.4	9.4	7.6	8.2	8.6	11.4	8.8	119

Key: (a). Days. (b). Cloud cover. (c). Year. (1). Debedashen (Lambalu). (1a). Clear. (1b). Total. (1c). Cloudy. (3). Kokhb. (4). Shnokh. (4a). Low. (5). Kalinino. (6). Shurabad. (7). Odzun (Uzunlar).

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## Continuation of Table 4.

		8. Гукасян Верин													
(8a)	(8b)														
Ясные (8a)	Общая (8b)	11.1	1.2	2.0	3.3	2.0	4.0	8.7	10.8	10.2	7.2	5.3	3.0	59	
Пасмурные (8c)	Общая (8b)	14.8	14.3	12.7	12.4	10.1	5.7	3.2	1.6	2.4	5.4	9.9	14.1	107	
		10. Севкар													
Ясные (8a)	Общая (8b)	6.0	4.0	2.8	2.8	1.6	4.0	6.0	7.0	6.1	6.6	4.0	5.6	56	
Пасмурные (8c)	Нижняя (10a)	10.7	11.0	13.1	15.2	15.0	11.8	9.8	8.0	9.5	9.3	11.7	9.9	135	
		11. Степанаван													
Ясные (8a)	Общая (8b)	5.5	3.7	2.0	2.2	1.3	2.4	3.1	4.2	4.8	5.6	3.8	5.8	44	
	Нижняя (10a)	13.2	9.6	6.3	5.4	3.0	4.0	5.1	6.2	6.1	9.5	8.1	12.8	89	
Пасмурные (8c)	Общая (8b)	8.6	9.1	13.3	14.3	13.4	10.3	11.4	9.9	10.4	9.0	10.9	8.7	129	
	Нижняя (10a)	4.2	4.2	7.4	9.9	7.9	6.2	8.4	8.0	9.0	6.7	7.5	4.7	84	
		13. Амасия													
Ясные (8a)	Общая (8b)	4.7	3.5	3.6	3.2	2.2	5.0	10.3	12.9	12.0	9.4	6.1	5.4	78	
	Нижняя (10a)	11.4	9.5	13.1	7.9	5.1	6.7	15.3	16.8	16.2	15.9	11.3	11.1	140	
Пасмурные (8c)	Общая (8b)	11.5	10.6	10.9	10.0	8.0	4.6	2.0	0.9	1.5	4.4	8.6	11.9	85	
	Нижняя (10a)	6.6	4.8	3.1	4.5	3.5	2.1	1.2	0.3	1.0	2.1	5.4	6.1	41	
		15. Узунтала													
Ясные (8a)	Общая (8b)	5.0	3.7	3.2	4.0	2.7	4.7	7.8	9.6	7.6	7.3	4.9	5.6	66	
	Нижняя (10a)	14.5	10.9	9.6	9.8	7.1	10.2	13.0	15.2	12.2	14.4	12.5	15.0	144	
Пасмурные (8c)	Общая (8b)	10.5	10.7	12.7	12.9	10.5	8.0	8.7	6.7	8.0	9.4	13.0	9.8	121	
	Нижняя (10a)	6.1	4.5	6.8	6.8	4.6	3.8	2.8	3.1	3.9	4.9	8.4	5.0	61	
		16. Берд 1													
Ясные (8a)	Общая (8b)	5.3	2.9	3.4	3.8	2.0	4.9	7.2	8.9	7.5	7.4	4.9	5.7	64	
	Нижняя (10a)	14.4	11.2	9.7	9.2	6.7	9.1	12.5	13.7	11.3	11.9	10.7	14.0	134	
Пасмурные (8c)	Общая (8b)	9.7	10.3	13.0	12.5	12.1	8.4	8.5	6.8	8.5	9.0	12.0	9.8	121	
	Нижняя (10a)	4.6	5.1	7.8	7.6	6.2	4.4	3.9	2.8	5.0	6.0	7.5	6.0	67	
		16a. Берд 2													
Ясные (8a)	Общая (8b)	4.0	2.8	2.1	3.4	2.1	4.5	7.2	8.0	7.0	6.0	4.5	5.2	57	
Пасмурные (8c)	Общая (8b)	2.4	2.2	13.0	12.9	11.8	7.4	5.8	5.9	8.2	9.2	11.6	8.8	113	

Key: (8). Gukasyan Verin. (8a). Clear. (8b). Total. (8c).  
 Cloudy. (10). Sevkar. (10a). Low. (11). Stepanavan. (13).  
 Amasiya. (15). Uzuntala. (16-16a). Berd ....

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Continuation of Table 4.

(a) Дни	(b) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
17. Джаджур, ж. д.														
(17a) Ясные	(17b) Общая	3.8	3.1	3.4	3.1	2.0	5.5	9.3	12.1	12.6	8.6	5.2	5.2	74
(17d) Пасмурные	(17c) Нижняя	9.9	9.4	10.4	9.4	7.8	10.5	17.0	18.3	18.6	15.6	10.9	11.1	149
	Общая (17b)	12.2	11.0	11.8	10.2	9.7	4.2	2.4	1.4	2.0	5.5	10.2	11.7	92
	Нижняя (17c)	6.6	5.4	4.0	3.1	2.5	0.8	0.3	0.3	0.5	2.0	4.7	6.2	36
19. Иджеван														
(17a) Ясные	Общая (17b)	5.5	3.9	2.7	3.1	1.8	3.2	6.0	7.0	6.1	6.6	4.4	6.4	57
	Нижняя (17c)	13.8	11.7	9.5	8.1	6.4	7.9	10.7	12.2	9.5	11.2	9.8	14.2	125
(17d) Пасмурные	Общая (17b)	9.3	9.5	13.6	13.5	12.4	8.5	9.8	7.4	9.8	9.6	11.8	9.1	124
	Нижняя (17c)	4.4	4.8	6.3	7.4	5.3	4.3	4.5	4.6	6.1	7.0	7.7	5.2	68
20. Спитак														
(17a) Ясные	Общая (17b)	5.1	4.0	3.2	3.0	1.7	4.4	6.9	9.7	8.6	7.7	5.6	6.0	66
	Нижняя (17c)	14.7	12.2	11.0	8.0	6.6	8.4	14.1	15.0	12.4	12.9	10.7	14.6	141
(17d) Пасмурные	Общая (17b)	9.2	9.5	11.2	10.8	10.0	5.0	4.3	3.6	3.0	6.0	8.7	9.1	90
	Нижняя (17c)	1.6	2.6	3.0	5.3	3.0	1.8	2.2	2.3	2.2	3.0	4.9	2.8	35
21. Айгедзор														
(17a) Ясные	Общая (17b)	4.6	3.0	2.8	2.8	2.0	4.8	6.6	8.6	6.5	5.2	4.0	5.6	56
(17d) Пасмурные	Общая (17b)	10.2	9.8	14.2	14.0	13.0	9.6	9.4	7.4	10.2	9.8	14.1	10.0	132
22. Кировакан														
(17a) Ясные	Общая (17b)	6.2	4.1	3.2	3.0	1.4	2.2	3.3	5.9	5.3	6.2	4.7	6.1	52
	Нижняя (17c)	13.0	10.3	8.4	5.7	3.1	3.1	4.8	6.5	6.3	10.0	9.4	11.4	92
(17d) Пасмурные	Общая (17b)	7.5	7.9	11.0	13.3	11.4	9.7	10.3	7.7	8.3	7.2	9.4	7.5	111
	Нижняя (17c)	3.2	3.2	5.0	8.0	7.3	7.0	8.0	6.7	7.5	5.2	6.4	4.3	72
23. Ленинакан														
(17a) Ясные	Общая (17b)	2.0	2.5	1.1	2.0	1.4	3.6	8.2	11.5	10.7	8.2	4.7	4.8	61
	Нижняя (17c)	9.7	7.8	8.6	6.3	5.7	8.0	14.7	16.3	16.9	17.3	11.8	10.6	134
(17d) Пасмурные	Общая (17b)	13.1	12.7	14.1	13.0	11.4	6.9	3.4	2.2	2.0	5.2	10.9	14.7	110
	Нижняя (17c)	6.3	4.2	1.9	1.4	1.6	0.3	0.7	0.0	0.5	2.1	3.3	6.1	28

Key: (a). Days. (b). Cloud cover. (c). Year. (17). Dzhadzhur, railroad. (17a). Clear. (17b). Total. (17c). Low. (17d). Cloudy. (19). Idzhevan. (20). Spitak. (21). Aygedzor. (22). Kirovakan. (23). Leninakan.

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## Continuation of Table 4.

24. Лермонтово														
(24a) Ясные	(24b) Общая	5.6	4.3	3.2	2.5	1.2	2.3	2.8	3.7	4.9	5.4	4.7	6.5	47
(24c) Пасмурные	(24b) Общая	9.0	9.1	13.3	13.7	12.8	9.8	11.9	10.3	10.2	9.3	9.9	8.1	127
25. Дилижан														
(24a) Ясные	(24b) Общая	5.9	3.3	2.9	2.3	1.2	2.3	3.8	5.2	5.0	5.3	4.4	6.0	48
(24c) Пасмурные	(25a) Нижняя	12.6	8.1	6.9	6.6	4.0	5.4	7.5	9.6	7.5	9.9	9.0	12.6	100
	(24b) Общая	8.4	9.4	13.4	14.3	13.0	9.8	10.7	8.9	10.3	10.1	11.2	8.8	128
	(25a) Нижняя	3.2	2.7	5.1	2.7	1.6	0.7	1.1	1.1	2.2	3.5	4.7	2.4	31
26. Семеновка														
(24a) Ясные	(24b) Общая	5.0	3.6	3.0	3.2	1.4	2.6	5.1	5.9	5.9	6.6	5.8	5.1	53
(24c) Пасмурные	(25a) Нижняя	11.2	8.8	7.8	7.0	4.5	4.3	7.1	8.3	7.4	10.8	11.4	12.7	101
	(24b) Общая	9.6	10.0	12.9	14.4	12.1	9.4	9.8	7.0	8.5	7.9	9.6	9.2	120
	(25a) Нижняя	5.1	6.0	7.7	8.8	6.5	6.0	7.6	5.3	7.4	5.8	6.4	4.9	78
27. Цахкаовит														
(24a) Ясные	(24b) Общая	5.8	4.2	4.6	3.4	2.3	4.9	6.6	7.9	10.3	9.3	6.2	7.3	73
(24c) Пасмурные	(24b) Общая	10.2	9.6	11.4	13.0	10.3	5.8	5.4	2.7	2.5	7.1	8.3	10.2	96
28. Анкаван														
(24a) Ясные	(24b) Общая	5.9	3.4	3.4	3.5	2.1	4.0	5.2	8.5	10.9	8.1	6.6	6.2	68
(24c) Пасмурные	(25a) Нижняя	13.6	11.0	8.8	7.8	6.2	7.3	10.3	13.2	14.0	13.9	12.5	13.3	132
	(24b) Общая	10.6	10.3	13.7	13.7	11.2	5.9	6.2	3.3	3.1	6.1	8.1	11.1	103
	(25a) Нижняя	4.8	5.3	5.7	6.4	5.8	3.8	1.4	1.7	1.4	2.4	5.4	6.0	50
29. Артик														
(24a) Ясные	(24b) Общая	5.6	3.2	3.4	2.6	2.2	5.0	8.4	10.6	12.1	8.8	5.6	5.0	72
(24c) Пасмурные	(24b) Общая	12.8	11.0	12.3	13.0	11.7	6.2	3.6	1.8	2.0	6.0	10.0	12.6	103
30. Апаран														
(24a) Ясные	(24b) Общая	4.5	3.0	3.8	3.4	2.3	5.6	8.1	11.3	13.3	9.1	6.6	5.9	77
(24c) Пасмурные	(24b) Общая	12.5	11.1	12.1	12.5	11.3	5.0	3.1	1.9	1.7	5.5	9.5	11.0	97

Key: (24). Lermontov. (24a). Clear. (24b). Total. (24c).  
 Cloudy. (25). Dilizhan. (25a). Low. (26). Semenovka. (27).  
 Tsakhkaovit. (28). Ankavan. (29). Artik. (30). Aparan.

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Continuation of Table 4.

(a) Дни	(b) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
31. Красносельск														
(31a) Ясные	(31b) Общая	6.7	4.6	3.4	3.0	1.6	3.1	4.6	6.7	6.0	6.7	6.2	6.6	59
(31d) Пасмурные	(31c) Нижняя	14.5	11.9	10.5	8.7	6.4	5.2	6.3	8.5	7.1	11.1	12.1	14.8	112
	Общая (31b)	7.4	6.2	11.4	12.4	11.2	8.4	10.9	7.9	8.8	7.9	9.4	7.7	112
	Нижняя (31c)	3.3	3.4	6.0	6.8	5.7	5.0	8.4	6.6	7.6	5.6	5.4	3.6	67
32. Севан, озерная ГМО														
Ясные (31a)	Общая (31b)	3.6	2.8	2.8	2.9	2.2	4.1	6.4	8.8	8.9	8.0	5.6	4.5	61
	Нижняя (31c)	11.6	9.9	9.8	8.6	7.2	7.3	10.9	12.8	11.6	15.2	13.1	12.3	130
Пасмурные (31d)	Общая (31b)	10.0	9.7	12.7	12.2	10.9	6.2	5.3	3.4	4.3	5.0	8.8	9.6	98
	Нижняя (31c)	3.7	2.9	3.2	4.2	3.1	2.4	1.9	1.7	2.6	1.9	3.7	3.7	35
33. Севан, ГМС														
Ясные (31a)	Общая (31b)	3.6	2.1	2.7	2.7	1.9	4.6	6.6	8.2	9.5	8.5	5.9	5.0	61
	Нижняя (31c)	6.2	5.1	5.9	6.1	4.7	5.4	8.6	9.7	9.7	12.7	9.7	7.6	91
Пасмурные (31d)	Общая (31b)	12.0	11.7	13.9	13.4	10.7	5.7	5.2	3.1	3.4	5.4	9.8	11.3	106
	Нижняя (31c)	8.2	8.6	8.3	8.6	4.8	2.2	2.6	1.6	2.6	2.8	6.4	6.5	63
34. Гарновит														
Ясные (31a)	Общая (31b)	5.3	5.1	3.7	3.8	2.3	5.3	11.2	12.8	14.2	9.5	5.9	6.1	85
	Нижняя (31c)	14.0	11.4	11.3	9.4	7.5	8.4	15.9	17.7	18.4	16.7	12.9	13.8	157
Пасмурные (31d)	Общая (31b)	10.9	10.4	12.8	12.8	10.1	4.9	2.5	1.1	1.9	5.1	9.0	10.4	92
	Нижняя (31c)	3.5	3.6	4.8	4.5	3.3	2.1	0.8	0.4	0.9	2.2	4.2	3.7	34
35. Раздан														
Ясные (31a)	Общая (31b)	4.2	3.4	3.1	3.3	2.7	6.2	9.8	11.8	12.6	9.3	6.2	4.8	77
	Нижняя (31c)	9.8	8.5	9.5	7.6	6.8	8.4	11.9	14.6	14.9	14.5	10.8	10.8	128
Пасмурные (31d)	Общая (31b)	13.7	12.6	13.7	12.2	9.3	4.4	3.2	1.9	2.7	4.7	8.7	11.9	99
	Нижняя (31c)	7.7	6.6	5.3	5.5	4.2	2.2	1.8	1.3	1.9	3.2	5.5	7.7	53

Key: (a). Days. (b). Cloud cover. (c). Year. (31).

Krasnosel'sk. (31a). Clear. (31b). Total. (31c). Low. (31d).

Cloudy. (32). Lake Sevan GMO. (33). Sevan, GMS. (34). Garnovit.

(35). Razdan.

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## Continuation of Table 4.

		36. Шоржа												
(36a) Ясные	(36b) Общая	2.2	2.8	2.4	3.2	2.4	5.4	9.5	10.6	10.4	8.2	4.6	2.8	64
(36d) Пасмурные	(36c) Нижняя	7.7	6.6	8.2	9.2	9.3	9.4	13.2	15.2	13.9	15.6	11.2	8.6	128
	Общая (36b)	11.9	10.6	12.8	13.4	9.5	5.6	3.4	2.2	2.5	5.2	9.1	11.8	98
	Нижняя (36c)	5.6	3.6	2.8	3.7	1.6	1.2	0.4	0.6	0.5	2.2	3.2	4.6	30
		37. Арагац, высокогорная												
Ясные (36a)	Общая (36b)	5.7	4.5	3.9	2.8	2.2	4.3	6.8	9.6	11.4	7.8	6.6	7.0	73
(36d) Пасмурные	Нижняя (36c)	10.6	8.7	8.7	6.9	6.4	6.8	9.2	12.4	13.5	11.5	10.4	11.9	117
	Общая (36b)	11.6	11.8	14.0	13.7	12.3	6.0	3.9	2.6	2.7	7.4	10.8	11.1	108
	Нижняя (36c)	8.6	8.4	9.3	8.4	6.6	3.2	2.2	1.2	1.9	5.2	8.1	7.8	71
		39. Фонтан												
Ясные (36a)	Общая (36b)	4.4	3.5	2.5	3.2	2.6	5.8	11.1	13.2	14.2	10.0	6.1	5.5	82
(36d) Пасмурные	Общая (36b)	13.3	12.4	14.1	12.6	10.0	4.6	2.6	1.8	1.8	4.9	9.7	11.7	100
		40. Талин Верин												
Ясные (36a)	Общая (36b)	4.3	3.6	3.4	3.3	3.1	7.5	11.1	15.4	15.7	9.5	6.1	5.5	88
	Нижняя (36c)	12.7	11.5	12.8	9.3	10.5	12.1	18.4	21.0	21.0	16.4	15.0	15.8	176
(36d) Пасмурные	Общая (36b)	11.5	11.1	11.9	11.5	8.7	3.8	2.1	1.0	1.6	5.1	8.9	11.1	88
	Нижняя (36c)	6.2	5.7	5.0	3.6	3.4	2.4	0.4	0.3	1.0	3.1	5.6	5.7	42
		42. Кошабулах												
Ясные (36a)	Общая (36b)	4.6	2.9	3.4	4.0	3.6	7.4	11.8	15.4	15.8	9.4	6.0	5.8	90
	Нижняя (36c)	11.0	9.8	10.6	8.4	8.8	10.4	14.8	19.0	17.6	14.4	11.3	11.7	148
(36d) Пасмурные	Общая (36b)	11.7	10.8	12.8	13.1	10.0	4.4	2.0	0.9	1.7	5.9	9.7	10.6	94
	Нижняя (36c)	6.4	6.0	6.6	6.2	4.3	1.9	0.6	0.6	0.8	3.5	5.4	6.2	48
		43. Камо												
Ясные (36a)	Общая (36b)	3.1	3.4	3.4	3.2	2.1	3.9	5.9	7.9	9.0	8.1	6.5	4.9	61
	Нижняя (36c)	7.7	7.2	8.0	7.2	5.1	5.8	8.4	9.4	10.4	12.0	10.8	9.5	102
(36d) Пасмурные	Общая (36b)	9.6	9.8	11.2	11.9	10.4	6.2	6.8	4.4	3.9	6.4	8.2	9.0	98
	Нижняя (36c)	5.9	5.2	6.4	6.6	4.9	3.4	4.0	2.8	3.1	4.0	5.0	5.4	57

Key: (36). Shorzha. (36a). Clear. (36b). Total. (36c). Low.  
 (36d). Cloudy. (37). Aragats, high-mountain. (39). Fontan. (40).  
 Talin Verin. (42). Koshabulakh. (43). Kama.



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Continuation of Table 4.

(a) Дни	(b) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
44. Арагац, ж. д.														
(44a) Ясные	(44b) Общая	4.8	4.5	3.2	3.9	3.4	8.9	13.8	16.6	16.0	9.5	6.0	5.9	96
(44c) Пасмурные	(44b) Общая	11.3	11.2	12.0	10.3	8.0	3.0	2.0	0.7	1.1	4.1	9.0	11.0	84
45. Егвард														
(44a) Ясные	(44b) Общая	3.8	3.7	2.6	3.7	2.4	7.0	12.6	14.2	14.4	10.1	6.4	5.0	86
(44c) Пасмурные	(45a) Нижняя	12.4	10.6	9.0	8.0	7.8	11.2	17.6	20.7	19.8	16.7	13.3	11.8	159
	(44b) Общая	14.3	12.8	14.5	12.6	10.9	5.7	2.4	1.3	2.0	5.2	9.8	14.3	106
	(45a) Нижняя	8.8	7.8	8.1	6.4	3.3	1.9	1.0	0.7	0.7	2.6	5.2	9.2	56
46. Аштарак														
(44a) Ясные	(44b) Общая	4.6	4.2	3.8	4.5	4.4	10.1	15.2	17.5	17.0	11.9	6.7	5.5	105
(44c) Пасмурные	(44b) Общая	14.0	11.9	12.4	10.9	7.9	3.6	1.6	0.9	1.3	4.3	8.9	13.9	92
47. Ератумбер														
(44a) Ясные	(44b) Общая	5.2	4.5	3.6	3.5	2.4	4.7	6.2	8.3	11.9	8.8	7.3	7.1	74
(44c) Пасмурные	(44b) Общая	11.3	10.5	16.3	14.4	11.3	6.0	6.8	3.4	2.6	6.6	10.4	10.1	110
48. Шамиран														
(44a) Ясные	(44b) Общая	6.9	4.9	3.8	4.2	4.4	8.8	15.6	16.4	17.3	11.3	8.0	6.1	108
(44c) Пасмурные	(45a) Нижняя	11.6	10.4	10.5	9.4	11.0	14.2	20.7	21.2	20.5	17.5	13.6	10.6	171
	(44b) Общая	11.6	11.6	12.4	9.4	6.4	2.8	1.4	0.9	1.3	4.0	8.3	12.8	83
	(45a) Нижняя	7.8	7.5	4.7	3.6	2.1	0.7	0.8	0.3	1.1	2.5	4.7	9.6	45
49. Каракерт (Кармрашен)														
(44a) Ясные	(44b) Общая	5.6	5.0	4.4	4.2	4.4	10.2	15.6	17.2	17.1	11.4	7.6	7.2	110
(44c) Пасмурные	(44b) Общая	12.4	10.6	11.0	12.2	8.1	4.2	2.8	1.0	1.7	5.2	9.0	12.6	91

Key: (a). Days. (b). Cloud cover. (c). Year. (44). Aragats, railroad. (44a). Clear. (44b). Total. (44c). Cloudy. (45). Yegvard. (45a). Low. (46). Ashtarak. (47). Yeratumber. (48). Shamiran. (49). Karakert (Karmrashen).

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## Continuation of Table 4.

		50. Мазра												
Ясные (50a)	(50b) Общая	4.4	3.5	3.2	3.1	2.6	6.1	9.9	12.3	11.9	8.9	5.9	5.0	77
(50d) Нижняя	(50c)	11.4	9.7	10.5	8.5	7.3	7.6	12.5	14.3	13.7	13.7	11.8	12.6	134
Пасмурные	Общая (50b)	9.2	8.5	10.8	10.4	8.2	3.8	3.0	1.7	2.1	4.9	7.4	9.4	79
	Нижняя (50c)	2.1	2.0	2.5	2.7	1.7	1.0	1.0	0.6	1.3	2.0	2.3	2.5	22
		51. Ереван, ГМО												
Ясные (50a)	Общая (50b)	4.7	4.2	3.0	4.2	3.6	8.6	15.0	16.0	15.4	10.0	5.4	5.4	96
(50d) Нижняя	(50c)	11.6	12.0	11.5	10.6	10.6	13.4	20.0	21.0	20.2	19.1	15.8	11.6	177
Пасмурные	Общая (50b)	14.0	12.0	13.4	12.2	7.6	3.2	1.8	1.2	1.5	4.7	9.4	13.4	94
	Нижняя (50c)	5.9	3.8	2.5	2.3	1.8	1.0	0.1	0.4	0.0	1.7	2.7	7.1	29
		52. Ереван, агро												
Ясные (50a)	Общая (50b)	4.1	4.2	3.4	4.4	3.0	7.8	14.0	15.4	15.1	10.8	6.4	5.1	94
(50d) Нижняя	(50c)	11.9	12.8	12.4	9.6	9.7	13.2	20.6	22.0	21.2	19.7	16.8	13.5	183
Пасмурные	Общая (50b)	13.8	11.4	11.8	10.6	7.5	3.0	1.6	1.0	1.3	4.3	8.8	12.6	88
	Нижняя (50c)	5.5	3.2	1.8	1.8	1.1	0.2	0.0	0.5	0.2	1.4	0.8	4.9	21
		53. Дзрвез												
Ясные (50a)	Общая (50b)	4.6	5.0	2.8	4.9	3.7	9.0	14.8	17.2	15.6	11.2	7.7	5.0	102
Пасмурные (50d)	Общая (50b)	12.1	10.4	12.2	10.8	7.2	2.6	1.0	0.4	1.3	4.6	9.0	12.2	84
		55. Октемберян												
Ясные (50a)	Общая (50b)	5.1	4.6	4.0	4.7	4.3	9.8	15.9	17.8	17.5	11.5	7.6	5.5	108
(50d) Нижняя	(50c)	12.0	12.3	13.5	11.4	12.5	16.2	24.1	26.4	24.7	21.0	16.9	13.3	204
Пасмурные	Общая (50b)	13.0	10.4	11.4	10.9	7.9	2.4	1.2	0.5	0.9	4.0	7.5	12.8	83
	Нижняя (50c)	6.9	4.4	2.0	2.3	0.6	0.4	0.0	0.2	0.5	1.3	2.4	5.9	27
		56. Ереван												
Ясные (50a)	Общая (50b)	4.7	4.5	3.4	4.4	3.4	8.8	15.1	16.8	17.0	10.9	7.7	5.5	102
(50d) Нижняя	(50c)	10.2	10.7	11.6	11.1	10.9	14.6	21.6	23.1	22.9	19.1	16.0	12.4	184
Пасмурные	Общая (50b)	14.6	11.2	11.3	9.2	6.6	2.2	1.0	0.4	1.0	3.3	7.9	12.8	82
	Нижняя (50c)	7.5	5.0	2.9	1.7	0.5	0.2	0.0	0.1	0.3	1.3	2.2	6.8	28

Key: (50). Mazra. (50a). Clear.

(50b). Total. (50c). Low. (50d). Cloudy. (51). Yerevan, GMO.

(52). Yerevan, agricultural. (53). Dzhrvezh. (55). Oktemberyan.

(56). Yerevan.

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Continuation of Table 4.

(a) Дни	(b) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
57. Мартуни I														
(57a) Ясные	(57b) Общая	5.0	4.2	4.6	4.4	2.8	5.0	7.4	11.3	11.2	7.9	7.4	6.5	78
(57d) Пасмурные	(57c) Нижняя	11.2	9.1	10.8	9.2	6.9	7.5	10.1	13.5	13.2	12.6	12.4	12.9	129
	Общая (57b)	7.3	7.7	9.0	10.4	9.3	5.0	3.8	2.2	2.5	6.0	6.9	7.2	77
	Нижняя (57c)	3.6	3.9	4.8	5.3	4.3	2.6	2.2	1.3	1.7	3.6	3.2	3.3	40
57a. Мартуни II														
Ясные (57a)	Общая (57b)	5.8	4.8	3.9	3.9	2.8	6.8	8.8	11.9	12.2	10.2	7.2	6.6	85
Пасмурные (57d)	Общая (57b)	8.3	7.4	10.6	10.8	8.4	3.6	4.8	3.4	3.4	5.4	6.4	8.8	81
58. Гарни														
Ясные (57a)	Общая (57b)	4.2	3.9	3.3	3.7	3.5	8.0	14.5	15.7	16.6	10.6	6.5	4.9	95
Пасмурные (57d)	Нижняя (57c)	14.1	12.6	12.2	12.3	12.3	15.1	21.4	24.2	22.6	20.7	16.8	13.6	198
	Общая (57b)	12.9	11.8	13.0	12.0	8.9	3.4	2.1	1.0	1.6	4.6	9.4	13.1	94
	Нижняя (57c)	4.5	3.1	3.4	2.3	1.2	0.7	0.2	0.2	0.5	1.6	2.2	6.4	26
59. Яныкх														
Ясные (57a)	Общая (57b)	4.5	4.6	3.0	3.6	2.4	5.4	8.4	11.8	12.4	9.5	6.5	7.6	80
Пасмурные (57d)	Нижняя (57c)	10.2	8.7	6.9	8.6	6.6	7.4	10.2	13.6	14.7	13.9	11.0	13.0	125
	Общая (57b)	11.2	10.0	13.6	11.7	10.2	4.4	2.9	1.7	1.7	4.4	8.8	9.0	90
	Нижняя (57c)	7.0	6.6	8.6	7.4	4.6	1.6	1.9	0.7	1.0	2.8	5.6	6.0	54
60. Арташат														
Ясные (57a)	Общая (57b)	4.0	3.6	3.7	3.8	3.8	9.1	15.1	16.7	17.3	10.9	7.2	5.6	101
Пасмурные (57d)	Нижняя (57c)	8.5	10.3	11.1	8.9	9.6	13.6	20.0	21.0	20.2	17.8	14.1	11.1	166
	Общая (57b)	13.7	11.6	12.0	10.2	7.0	2.9	1.3	0.6	1.1	4.2	7.9	12.3	85
	Нижняя (57c)	5.6	4.7	2.9	2.7	2.1	0.7	0.6	0.5	0.6	1.8	2.0	6.3	30
61. Чиманкенд														
Ясные (57a)	Общая (57b)	4.4	4.5	3.0	4.0	3.8	8.3	15.2	17.1	16.4	11.8	6.8	5.0	100
Пасмурные (57d)	Нижняя (57c)	14.3	11.5	12.7	11.5	11.6	15.8	22.0	23.5	22.2	19.0	18.2	13.6	196
	Общая (57b)	11.6	10.7	12.6	11.6	7.2	2.8	1.3	0.6	1.1	3.7	8.4	12.6	84
	Нижняя (57c)	5.3	3.9	1.8	2.1	0.6	0.5	0.2	0.1	0.4	1.1	1.9	5.4	23

Key: (a). Days. (b). Cloud cover. (c). Year. (57). Martuni I.  
 (57a). Clear. (57b). Total. (57c). Low. (57d). Cloudy. (57a1).  
 Martuni II. (58). Garni. (59). Yanykh. (60). Artashat. (61).  
 Chimankend.

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## Continuation of Table 4.

62. Джермук														
(62a) Ясные	(62b) Общая	5.5	4.2	1.8	2.4	2.2	6.4	12.3	13.8	13.1	10.5	6.7	5.6	84
(62d) Пасмурные	(62c) Нижняя	14.1	11.0	10.6	9.4	7.2	10.2	17.0	17.9	16.6	15.6	14.4	14.8	159
	Общая	12.6	13.0	15.2	15.7	10.2	4.3	2.5	1.8	2.3	5.7	10.2	11.7	105
	Нижняя	5.0	5.2	6.0	4.0	3.0	0.8	0.0	0.8	0.6	1.5	3.8	4.6	35
64. Екегнадзор														
(62a) Ясные	(62b) Общая	3.7	3.6	2.2	2.8	2.4	6.8	12.9	14.6	15.4	10.1	6.3	4.2	85
(62d) Пасмурные	(62c) Нижняя	14.1	11.7	11.2	9.8	10.8	13.3	20.5	21.8	21.5	19.5	16.3	13.5	184
	Общая	13.2	13.6	15.2	14.6	11.3	4.2	2.2	1.5	1.9	4.2	10.0	13.5	105
	Нижняя	4.3	3.4	2.9	2.0	0.9	0.5	0.2	0.1	0.3	1.0	2.2	5.6	23
67. Арени														
(62a) Ясные	(62b) Общая	3.6	3.0	2.8	3.4	2.9	8.8	14.8	17.1	17.4	11.6	6.9	5.0	97
(62d) Пасмурные	(62c) Нижняя	13.8	12.2	14.6	12.3	8.1	1.8	0.6	0.7	1.1	3.9	7.8	12.9	90
68. Базарчай														
(62a) Ясные	(62b) Общая	5.2	4.6	2.8	2.4	1.9	5.8	9.2	10.6	6.7	8.8	7.0	6.3	71
(62d) Пасмурные	(62c) Нижняя	10.2	10.6	13.7	13.6	9.8	5.6	4.1	4.5	6.0	7.2	8.4	10.6	104
69. Мартирос														
(62a) Ясные	(62b) Общая	4.7	3.8	3.0	2.4	2.7	7.3	11.9	15.2	15.5	10.5	7.9	5.6	90
(62d) Пасмурные	(62c) Нижняя	10.0	10.8	11.9	11.7	8.4	3.3	2.0	1.0	1.5	4.5	7.7	9.5	82
70. Сисианский перевал														
(62a) Ясные	(62b) Общая	4.4	4.3	2.6	2.4	2.3	5.0	9.4	10.0	8.0	8.2	5.6	4.9	67
(62d) Пасмурные	(62c) Нижняя	10.3	8.0	7.3	6.6	5.0	7.0	11.8	12.0	9.0	10.5	10.6	11.4	110
	Общая	12.7	11.8	15.7	14.3	11.9	7.2	5.9	4.2	7.5	9.0	11.1	11.9	123
	Нижняя	8.6	8.4	10.9	10.2	7.8	6.2	4.8	3.6	6.8	6.4	7.0	8.0	89
71. Сисиан														
(62a) Ясные	(62b) Общая	5.3	4.4	2.7	2.3	1.9	5.3	9.2	10.2	6.9	6.9	4.9	6.0	66
(62d) Пасмурные	(62c) Нижняя	13.2	10.3	9.1	6.6	6.2	8.3	12.7	13.4	8.9	11.1	11.8	13.9	126
	Общая	8.0	8.5	11.4	12.7	9.2	4.1	3.3	2.7	4.8	7.0	8.3	8.0	88
	Нижняя	3.6	4.4	4.9	5.3	2.8	1.9	1.9	1.5	3.7	4.2	4.2	3.6	42

Key: (62). Dzhermuk. (62a). Clear. (62b). Total. (62c). Low.  
 (62d). Cloudy. (64). Yekhegnadzor. (67). Areni. (68).  
 Bazarchay. (69). Martiros. (70). Sisian pass. (71). Sisian.

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Continuation of Table 4.

(a) Дни	(b) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
72. Горис I														
(72a) Ясные	(72b) Общая	7.4	4.8	4.2	4.3	2.6	6.2	9.5	10.8	7.9	7.6	6.2	8.0	80
(72d) Пасмурные	(72c) Нижняя	14.9	11.9	10.6	10.0	6.9	8.6	12.7	14.4	10.3	9.7	11.5	14.2	136
	Общая (72b)	6.7	7.9	9.9	9.9	10.7	8.2	8.3	6.8	10.1	9.8	8.3	7.7	104
	Нижняя (72c)	3.7	5.2	6.5	6.9	6.4	5.4	5.4	5.4	8.6	8.8	6.6	5.0	74
72a. Горис II														
Ясные (72a)	Общая (72b)	8.0	5.5	3.0	2.6	1.7	5.4	8.2	9.9	7.0	7.3	6.0	8.4	73
Пасмурные (72d)	Общая (72b)	7.0	7.8	12.0	13.1	11.8	9.0	9.0	8.7	13.2	10.8	9.4	6.4	118
73. Хотанан Верин														
Ясные (72a)	Общая (72b)	7.8	5.3	2.9	2.4	2.4	5.2	7.9	10.2	6.2	6.7	5.9	7.8	71
(72d) Пасмурные	Нижняя (72c)	16.7	14.1	9.2	8.7	7.6	9.6	13.3	15.0	8.6	11.2	12.4	17.8	144
	Общая (72b)	7.5	8.0	13.8	15.0	15.5	9.5	9.8	9.7	13.6	11.4	11.9	7.6	133
	Нижняя (72c)	5.8	5.4	10.0	10.6	8.5	6.8	5.8	6.2	11.2	9.2	8.9	5.4	94
74. Кафан														
Ясные (72a)	Общая (72b)	7.2	5.2	3.3	2.7	2.7	7.2	10.5	11.2	7.5	7.6	5.9	7.3	78
	Нижняя (72c)	15.1	12.7	8.6	9.8	9.2	11.4	14.6	15.8	9.7	12.1	11.1	5.9	146
Пасмурные (72d)	Общая (72b)	8.0	8.4	12.7	13.2	11.0	7.3	7.0	7.7	11.0	10.2	11.0	7.6	115
	Нижняя (72c)	5.0	5.6	9.2	7.0	5.2	3.9	3.4	5.1	9.0	7.9	8.0	4.9	74
77. Мегри														
Ясные (72a)	Общая (72b)	5.4	4.7	3.8	4.0	4.4	10.6	13.1	15.7	12.9	10.2	6.2	7.0	98
	Нижняя (72c)	14.5	13.5	13.2	11.9	14.2	18.4	21.2	21.9	17.0	16.6	4.2	15.4	192
Пасмурные (72d)	Общая (72b)	9.0	9.1	11.8	10.1	7.6	2.9	2.6	2.6	3.9	5.4	9.0	8.2	82
	Нижняя (72c)	4.5	3.4	4.3	4.2	2.0	1.2	0.7	0.4	2.1	2.5	4.1	3.3	33

Key: (a). Days. (b). Cloud cover. (c). Year. (72). Goris I.

(72a). Clear. (72b). Total. (72c). Low. (72d). Cloudy. (72a1).

Goris II. (73). Khotanan Verin. (74). Kafan. (77). Megri.

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TABLE 5.

AVERAGE MONTHLY AND ANNUAL TOTAL AND LOW CLOUD COVER (BALLS).

(a) № станции	(b) Станция	(c) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
4	Шнох	(4a) Общая	6.0	6.6	7.0	6.9	6.8	5.8	5.6	5.1	5.5	5.6	6.5	6.0	6.1
		(4b) Нижняя	3.1	3.1	4.2	4.6	4.3	4.1	3.7	3.4	4.0	3.6	4.2	3.2	3.8
6	Шурабад	Общая (6a)	6.2	6.2	6.1	5.9	6.0	4.4	3.5	2.9	3.1	4.3	5.3	5.9	5.0
11	Степанаван	Общая (11a)	5.6	6.1	7.0	7.2	7.0	6.4	6.4	5.9	6.0	5.6	6.3	5.6	6.3
		Нижняя (11b)	3.4	4.0	5.0	5.6	5.8	5.4	5.6	5.3	5.4	4.5	4.7	3.6	4.9
13	Амасия	Общая (13a)	6.2	6.3	6.3	6.3	6.2	4.9	3.5	3.0	3.1	4.2	5.6	6.1	5.1
16	Берд I	Общая (16a)	5.8	6.4	6.8	6.6	6.7	5.6	5.3	4.6	5.3	5.3	6.3	5.7	5.9
		Нижняя (16b)	3.4	3.9	4.7	4.6	4.8	4.0	3.6	3.2	3.9	4.0	4.4	3.7	4.0
17	Джаджур, ж. д.	Общая (17a)	6.5	6.5	6.7	6.4	6.4	4.8	3.8	3.2	3.1	4.6	5.9	6.2	5.3
		Нижняя (17b)	4.5	4.3	4.0	3.9	4.0	3.1	2.2	2.0	1.9	2.7	3.9	4.3	3.4
19	Иджеван	Общая (19a)	5.6	6.0	6.9	6.9	6.8	5.9	5.6	5.1	5.8	5.8	6.4	5.6	6.0
20	Спитак	Общая (20a)	5.8	6.1	6.5	6.5	6.5	5.1	4.6	3.9	4.0	4.5	6.0	5.6	5.4
		Нижняя (20b)	2.7	3.0	3.9	4.4	4.3	3.9	2.8	2.7	3.2	3.1	3.9	3.0	3.4
22	Кировакан	Общая (22a)	5.4	5.8	6.5	6.9	6.9	6.2	6.1	5.4	5.6	5.2	5.8	5.4	5.9
		Нижняя (22b)	3.4	3.7	4.6	5.4	5.6	5.6	5.4	4.9	5.1	4.2	4.4	3.7	4.7
23	Ленинакан	Общая (23a)	7.2	7.0	7.1	7.0	6.8	5.3	4.1	3.4	3.4	4.6	6.1	6.7	5.7
		Нижняя (23b)	4.9	4.5	4.0	4.2	4.3	3.4	2.2	2.0	2.0	2.6	3.8	5.4	3.6
24	Лермонтово	Общая (24a)	5.5	6.0	6.8	7.1	7.0	6.2	6.4	5.9	6.0	5.6	5.9	5.5	6.2
25	Дилижан	Общая (25a)	5.5	6.2	6.9	7.1	7.1	6.2	6.2	5.6	6.0	5.8	6.2	5.6	6.2
		Нижняя (25b)	3.5	3.8	4.6	4.4	4.4	4.0	3.9	3.4	4.1	3.9	4.2	3.4	4.0
26	Семеновка	Общая (26a)	5.8	6.2	6.7	7.0	6.9	6.1	5.7	5.2	5.5	5.2	5.7	5.6	6.0
		Нижняя (26b)	4.0	4.4	4.9	5.4	5.2	5.2	5.0	4.4	4.9	4.1	4.1	3.9	4.6
30	Апаран	Общая (30a)	6.4	6.5	6.5	6.7	6.6	4.8	4.1	3.3	3.1	4.5	5.5	6.0	5.3
31	Красносельск	Общая (31a)	5.2	5.8	6.5	6.8	6.7	6.0	6.0	5.2	5.6	5.2	5.6	5.3	5.8
		Нижняя (31b)	3.1	3.5	4.2	4.7	4.8	4.9	5.3	4.7	5.1	4.0	3.8	3.1	4.3
32	Севан, озерная, ГМО	Общая (32a)	6.1	6.4	6.8	6.7	6.5	5.3	4.9	4.0	4.1	4.7	5.6	6.0	5.6
		Нижняя (32b)	3.7	3.7	4.1	4.4	4.3	3.9	3.5	3.2	3.2	2.9	3.5	3.5	3.7
33	Севан, ГМС	Общая (33a)	6.4	6.9	7.1	7.0	6.6	5.2	4.8	4.1	4.0	4.6	5.7	6.2	5.7
		Нижняя (33b)	5.3	5.4	5.4	5.5	5.0	4.3	4.1	3.6	3.6	3.4	4.4	4.8	4.6
34	Гарновит	Общая (34a)	6.0	6.2	6.7	6.7	6.4	4.8	3.6	3.0	2.8	4.4	5.6	5.8	5.2
		Нижняя (34b)	3.3	3.7	3.9	4.2	4.1	3.4	2.4	2.0	2.0	2.6	3.4	3.3	3.2
35	Раздан	Общая (35a)	6.5	6.7	6.9	6.6	6.2	4.8	4.0	3.4	3.5	4.2	5.6	6.1	5.4
		Нижняя (35b)	4.7	4.7	4.4	4.7	4.6	3.8	3.3	2.8	2.9	3.1	4.2	4.5	4.0
37	Арагат, высокогорная	Общая (37a)	6.1	6.4	6.8	6.9	6.8	5.2	4.5	3.6	3.4	5.0	5.8	5.8	5.5
		Нижняя (37b)	4.8	5.0	5.2	5.2	5.1	4.3	3.6	3.0	2.9	4.0	4.6	4.4	4.3

Key: (a). Station number. (b). Station. (c). Cloud cover. (d). Year. (4). Shnokh. (4a). Total. (4b). Low. (6). Shurabad. (11). Stepanavan. (13). Amasiya. (16). Berd I. (17). Dzhadzhur, railroad. (19). Idzhevan. (20). Spitak. (22). Kirovakan. (23). Leninakan. (24). Lermontov. (25). Dilizhan. (26). Semenovka. (30). Aparan. (31). Krasnosel'sk. (32). Lake Sevan, GMO. (33). Sevan, GMS. (34). Garnovit. (35). Razdan. (37). Aragats, high-mountain.

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Continuation of Table 5.

(a) № станции	(b) Станция	(c) Облачность	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
39	Фонтан	(39a) Общая	6.5	6.7	7.1	6.7	6.3	4.7	3.6	3.0	3.0	4.3	5.8	6.1	5.3
40	Талин Верин	Общая	6.4	6.5	6.7	6.6	6.1	4.3	3.4	2.6	2.6	4.4	5.7	6.1	5.1
43	Камо	Общая	6.1	6.2	6.4	6.7	6.5	5.4	5.1	4.4	4.2	4.8	5.4	5.7	5.6
44	Арагац, ж. д.	(43a) Нижняя	4.8	4.8	4.9	5.0	5.0	4.5	4.3	3.9	3.8	3.6	4.0	4.2	4.4
50	Мазра	Общая	6.3	6.2	6.5	6.3	5.9	3.7	3.0	2.3	2.7	4.1	5.6	6.1	4.9
56	Ереван	Общая	6.0	6.1	6.4	6.6	6.0	4.6	3.9	3.2	3.4	4.4	5.4	5.8	5.2
57	Мартуни I	Нижняя	3.4	3.5	3.7	4.0	4.0	3.6	3.0	2.6	2.7	3.0	3.3	3.4	3.4
58	Гарни	Общая	6.6	6.3	6.5	6.0	5.5	3.7	2.7	2.3	2.3	3.8	5.2	6.2	4.8
59	Янык	Нижняя	4.6	4.1	3.6	3.4	3.0	2.3	1.5	1.3	1.3	2.0	2.7	4.1	2.8
60	Арташат	Общая	5.5	5.9	5.9	6.2	6.3	4.8	4.5	3.6	3.7	4.7	5.0	5.2	5.1
64	Ехегнадзор	Нижняя	3.8	4.1	4.0	4.3	4.5	3.9	3.6	3.0	3.0	3.5	3.4	3.5	3.7
69	Мартирос	Общая	6.6	6.8	7.0	6.6	6.0	4.0	3.1	2.6	2.4	4.1	5.6	6.4	5.1
71	Сисиан	Нижняя	3.5	3.5	3.6	3.4	3.1	2.4	1.4	1.2	1.2	1.9	2.7	3.8	2.6
72	Горис I	Общая	5.7	5.9	6.6	6.5	6.1	4.7	4.0	3.4	3.2	4.2	5.3	5.4	5.1
74	Кафан	Нижняя	4.5	4.7	5.3	4.9	4.6	3.8	3.4	2.8	2.6	3.2	4.1	4.0	4.0
77	Метри	Общая	6.7	6.6	6.8	6.3	5.6	3.7	2.8	2.3	2.2	4.0	5.2	6.4	4.9
		Общая	6.6	6.9	7.3	7.2	7.0	4.5	3.2	2.7	2.8	4.2	5.8	6.7	5.4
		Нижняя	3.5	3.6	3.6	3.7	3.2	2.6	1.6	1.4	1.4	2.0	2.6	3.8	2.8
		Общая	5.9	6.3	6.7	6.7	6.1	4.2	3.3	2.7	2.6	4.1	5.1	5.9	5.0
		Общая	5.5	5.8	6.6	6.8	6.4	4.8	4.1	3.8	4.6	5.2	5.6	5.4	5.4
		Нижняя	3.4	3.8	4.4	4.8	4.4	3.7	3.2	3.1	4.2	3.9	3.8	3.3	3.8
		Общая	4.9	5.4	6.1	6.1	6.4	5.3	4.9	4.3	5.2	5.3	5.4	5.0	5.4
		Нижняя	3.3	3.7	4.3	4.6	4.7	4.4	3.8	3.5	4.7	4.6	4.2	3.4	4.1
		Общая	5.1	5.7	6.7	6.8	6.5	5.0	4.6	4.4	5.6	5.5	6.0	5.1	5.6
		Нижняя	3.3	3.6	5.1	4.4	4.3	3.7	3.3	3.3	4.8	4.2	4.4	3.2	4.0
		Общая	5.6	5.9	6.4	6.2	5.6	3.6	3.2	2.7	3.4	4.3	5.5	5.4	4.8
		Нижняя	3.3	3.2	3.4	3.6	2.9	2.0	1.6	1.5	2.4	2.6	3.2	3.1	2.7

Key: (a). Station number. (b). Station. (c). Cloud cover. (d).  
 Year. (39). Fontan. (39a). Total. (40). Talin-Verin. (43).  
 Kama. (43a). Low. (44). Aragats, railroad. (50). Mazra. (56).  
 Yerevan. (57). Martuni I. (58). Garni. (59). Yanykh. (60).  
 Artashat. (64). Yekhegnadzor. (69). Martiros. (71). Sisian.  
 (72). Goris I. (74). Kafan. (77). Megri.

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TABLE 6.

AVERAGE MONTHLY AND ANNUAL TOTAL CLOUD COVER AT DIFFERENT HOURS OF THE DAY (BALLS).

(a) № станции	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
4	Шнох	1	5.7	6.3	6.4	6.2	5.9	5.1	5.2	4.6	5.1	4.9	6.1	5.6	5.6
		7	6.3	7.0	7.4	6.8	6.2	5.0	5.5	5.2	5.5	5.9	6.9	6.3	6.2
		13	6.5	7.3	7.7	7.7	7.4	6.4	6.0	5.4	6.0	6.3	7.1	6.5	6.7
11	Степанаван	19	5.5	5.7	6.6	6.9	7.5	6.6	5.6	5.1	5.3	5.1	5.9	5.4	5.9
		1	5.2	5.5	6.4	6.3	5.8	5.3	5.3	5.2	5.7	5.1	5.8	5.0	5.6
		7	6.0	6.8	7.6	7.1	6.4	5.2	5.7	5.5	5.9	6.0	6.9	6.3	6.3
13	Амасия	13	6.2	6.6	7.3	7.7	7.8	7.2	7.0	6.0	5.8	5.9	6.8	6.3	6.7
		19	5.0	5.4	6.8	7.5	8.2	7.8	7.4	7.0	6.8	5.5	5.8	4.9	6.5
		1	5.9	5.9	5.5	5.1	4.8	3.7	2.8	2.1	2.1	3.2	4.7	5.5	4.3
16	Берд I	7	6.7	7.0	6.7	6.2	5.6	3.6	3.0	2.3	2.8	4.3	5.9	6.5	5.0
		13	6.5	6.6	6.7	7.1	7.4	6.1	4.1	3.7	4.2	5.4	6.5	6.7	5.9
		19	5.6	5.7	6.3	6.7	7.1	6.1	4.1	3.8	3.3	3.9	5.2	5.6	5.3
22	Кировакан	1	5.4	6.0	6.1	5.7	5.7	4.6	4.8	4.3	4.9	4.6	5.9	5.3	5.3
		7	6.1	6.9	7.1	6.5	5.9	4.7	5.0	4.5	5.2	5.4	6.5	6.0	5.8
		13	6.6	7.3	7.9	7.4	7.6	6.4	5.9	4.9	5.8	6.3	7.0	6.4	6.6
25	Дилижан	19	5.3	5.6	6.3	6.6	7.7	6.6	5.5	4.8	5.2	5.0	5.8	5.2	5.8
		1	4.7	5.1	5.5	6.0	5.8	5.1	5.1	4.8	5.2	4.5	5.2	4.6	5.1
		7	5.7	6.4	7.1	6.8	6.2	5.2	5.7	4.9	5.5	5.7	6.5	5.8	6.0
30	Апаран	13	6.2	6.6	7.0	7.6	7.5	6.9	6.5	5.4	5.3	5.6	6.4	6.2	6.4
		19	4.8	5.1	6.4	7.3	8.0	7.6	7.2	6.4	6.4	5.1	5.3	4.8	6.2
		1	4.9	5.5	6.0	6.0	5.8	5.1	5.4	5.0	5.6	5.2	5.6	4.9	5.4
31	Красносельск	7	5.8	6.6	7.2	7.0	6.4	5.3	5.9	5.4	5.8	5.9	6.6	6.0	6.2
		13	6.2	6.9	7.4	7.8	8.0	7.1	6.3	5.5	6.0	6.4	6.8	6.4	6.7
		19	5.0	5.6	6.9	7.5	8.3	7.5	7.0	6.4	6.5	5.8	5.8	4.9	6.4
		1	5.9	5.8	5.5	5.6	5.2	3.6	3.0	2.4	1.9	3.5	4.5	5.4	4.4
		7	7.0	7.3	7.1	6.6	5.9	3.4	3.2	2.6	2.6	4.7	5.8	6.5	5.2
		13	6.9	7.0	7.0	7.5	7.6	6.4	5.6	4.8	4.7	5.8	6.6	6.7	6.4
		19	5.9	5.8	6.4	7.1	7.7	6.0	4.7	3.5	3.1	4.0	5.1	5.3	5.4
		1	4.8	5.2	5.9	5.8	5.7	5.1	5.4	5.0	5.6	4.7	5.1	4.7	5.2
		7	5.6	6.4	6.8	6.7	5.8	4.7	5.5	4.9	5.6	5.2	5.9	5.5	5.7
		13	5.9	6.5	7.0	7.4	7.4	6.9	6.6	5.3	5.3	5.7	6.1	6.1	6.6
		19	4.7	5.1	6.4	7.1	7.8	7.1	6.5	5.7	5.7	5.2	5.3	4.9	6.0

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.

(4). Shnokh. (11). Stepanavan. (13). Amasiya. (16). Berd I.

(22). Kirovakan. (25). Dilizhan. (30). Aparan. (31).

Krasnosel'sk.



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Continuation of Table 6.

(a) № станции	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
33	Севан, ГМС	1	6.0	6.2	6.4	5.9	5.3	4.3	4.5	3.8	3.6	3.7	5.1	5.7	5.0
		7	7.0	7.7	7.6	7.0	5.9	4.3	4.7	4.2	4.2	4.9	6.1	6.7	5.9
		13	6.7	7.3	7.5	7.7	7.4	5.9	4.7	3.9	4.3	5.5	6.4	6.7	6.2
34	Гарновит	19	6.0	6.3	7.0	7.3	7.6	6.3	5.4	4.4	3.9	4.2	5.2	5.6	5.8
		1	5.7	5.7	6.0	5.7	5.2	3.8	2.7	2.1	2.0	3.6	4.7	5.3	4.4
		7	6.4	6.9	6.9	6.4	5.6	3.5	2.8	2.2	2.4	4.4	6.1	6.3	5.0
35	Раздан	13	6.6	6.7	7.3	7.6	7.2	5.8	4.5	3.8	3.8	5.5	6.7	6.6	6.0
		19	5.3	5.6	6.6	7.0	7.6	6.2	4.3	3.7	3.2	4.0	5.1	5.2	5.3
		1	6.4	6.3	6.1	5.4	5.0	4.0	3.6	3.1	3.0	3.5	5.0	5.9	4.8
37	Арагац, высокогорная	7	6.9	7.1	7.2	6.5	5.5	3.7	3.6	3.0	3.4	4.6	6.1	6.5	5.3
		13	6.7	7.1	7.3	7.5	7.0	5.4	4.2	3.5	3.9	5.2	6.3	6.6	5.9
		19	6.1	6.2	6.9	7.0	7.3	6.0	4.7	3.8	3.6	3.7	5.0	5.5	5.5
43	Камо	1	5.6	5.9	6.0	5.9	5.6	4.0	3.1	2.4	2.3	4.1	5.2	5.2	4.6
		7	6.5	7.0	7.1	7.0	6.2	4.0	3.5	2.7	2.9	4.9	6.0	6.2	5.3
		13	6.8	7.1	7.5	7.6	7.3	6.8	6.4	5.5	5.3	6.4	6.6	6.5	6.6
50	Мазра	19	5.6	5.8	6.6	7.1	7.9	6.2	4.9	4.0	3.3	4.5	5.3	5.3	5.5
		1	5.6	5.5	5.6	5.7	5.3	4.4	4.6	4.1	3.6	4.0	4.8	5.1	4.9
		7	6.8	7.1	6.9	6.6	5.7	4.3	4.8	4.2	4.3	5.0	5.7	6.4	5.6
56	Ереван	13	6.6	6.8	7.0	7.5	7.4	6.2	5.1	4.5	4.7	5.6	6.1	6.4	6.2
		19	5.3	5.5	6.2	7.0	7.6	6.6	5.9	4.8	4.2	4.4	4.8	5.0	5.6
		1	5.4	5.5	5.6	5.5	4.9	3.7	3.6	2.7	2.7	3.7	4.8	5.2	4.4
59	Яных	7	6.5	6.8	6.9	6.6	5.3	3.3	3.2	2.8	3.0	4.6	5.8	6.3	5.1
		13	6.6	6.6	6.9	7.3	6.7	5.5	4.2	3.9	4.2	5.2	6.0	6.5	5.8
		19	5.4	5.6	6.4	6.8	7.2	5.8	4.5	3.6	3.5	4.0	4.9	5.2	5.2
64	Екегнадзор	1	6.3	5.9	5.6	4.9	4.3	3.0	2.3	1.8	1.7	3.1	4.5	5.8	4.1
		7	7.3	6.9	6.9	6.1	5.2	3.0	2.5	2.3	2.4	4.2	5.7	6.7	4.9
		13	6.8	6.8	7.2	6.6	5.6	3.4	2.2	1.9	2.2	4.1	5.7	6.7	4.9
71	Сисиан	19	6.0	5.7	6.3	6.6	6.9	5.4	3.8	3.1	2.9	3.6	4.7	5.7	5.1
		1	5.2	5.4	5.9	5.6	5.0	3.8	3.3	2.8	2.6	3.5	4.8	4.9	4.4
		7	6.2	6.5	7.0	6.5	5.4	3.5	3.6	3.0	2.8	4.5	5.6	5.8	5.0
		13	6.3	6.5	7.2	7.3	7.2	5.8	4.6	4.1	4.1	5.2	6.1	6.2	5.9
		19	5.2	5.3	6.4	6.7	6.9	5.6	4.3	3.6	3.1	3.7	4.6	4.9	5.0
		1	6.1	6.4	6.4	6.0	7.5	3.9	2.7	2.1	2.2	3.4	5.1	6.2	4.8
		7	7.2	7.5	7.5	7.0	5.7	3.5	2.8	2.4	2.7	4.6	6.5	7.4	5.4
		13	7.3	7.5	8.3	8.1	7.2	4.8	3.3	3.0	3.2	5.0	6.5	7.4	6.0
		19	5.8	6.1	6.9	7.6	7.7	5.8	4.0	3.4	3.1	3.7	5.1	5.8	5.4
		1	5.0	5.3	6.0	5.9	5.5	4.3	3.8	3.8	5.2	5.2	5.3	5.0	5.0

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.  
 (33). Sevan, GMS. (34). Garnovit. (35). Razdan. (37). Aragats,  
 high-mountain. (43). Kama. (50). Mazra. (56). Yerevan. (59).  
 Yanykh. (64). Yekhegnadzor. (71). Sisian.

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Continuation of Table 6.

		7	5.9	6.3	6.9	6.8	5.8	4.2	4.6	4.6	5.7	5.8	6.2	5.8	5.7
		13	6.0	6.3	7.0	7.5	6.9	5.0	3.7	3.3	3.7	5.2	6.1	6.0	5.6
		19	5.0	5.4	6.4	6.9	7.2	5.5	4.3	3.7	4.0	4.5	4.9	4.9	5.2
72	Горис I	1	4.2	4.8	5.8	5.1	5.3	4.7	4.4	4.0	5.0	4.7	4.9	4.5	4.7
		7	4.9	5.8	6.2	5.9	5.6	4.3	5.0	4.4	5.2	5.4	5.6	4.9	5.3
		13	5.5	5.9	6.6	6.8	7.0	5.7	4.7	4.0	5.0	5.5	5.8	5.6	5.7
		19	5.0	5.3	6.3	6.7	7.6	6.6	6.4	4.7	5.6	5.5	5.4	4.9	5.8
77	Мегри	1	5.1	5.3	5.7	5.2	4.3	3.2	3.0	2.5	3.3	3.8	5.1	4.7	4.3
		7	6.4	6.7	7.0	6.5	5.4	3.2	3.5	3.1	4.1	5.3	6.6	6.1	5.3
		13	6.1	6.4	6.7	6.4	5.8	3.1	2.4	2.0	2.5	4.2	5.6	6.1	4.8
		19	4.8	5.1	6.0	6.5	6.8	5.1	3.9	3.3	3.8	4.0	4.8	4.5	4.9

Key: (72). Goris I. (77). Megri.

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TABLE 7.

AVERAGE MONTHLY AND ANNUAL LOW CLOUD COVER AT DIFFERENT HOURS OF THE DAY (BALLS).

(a) № станции	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
4	Шнох	1	3.3	3.1	4.0	3.8	3.5	3.2	3.1	2.6	3.2	3.1	4.1	3.1	3.3
		7	3.2	3.3	4.3	4.4	3.3	3.2	3.7	3.3	4.1	3.8	4.4	3.4	3.7
		13	3.0	3.4	4.8	5.6	5.5	5.4	4.6	4.2	4.9	4.3	4.5	3.1	4.4
		19	2.9	2.7	3.7	4.5	4.8	4.6	3.5	3.3	3.9	3.3	3.9	3.0	3.7
22	Кировакан	1	3.5	3.6	4.7	5.2	5.2	5.0	4.7	4.5	4.7	3.9	4.5	3.6	4.4
		7	3.7	4.1	4.6	4.9	4.3	4.2	4.7	4.0	4.8	4.3	4.5	4.0	4.3
		13	3.1	3.5	4.3	5.8	6.5	6.5	5.9	5.1	4.9	4.1	4.2	3.6	4.8
		19	3.3	3.5	4.6	5.9	6.4	6.5	6.4	5.9	6.0	4.4	4.3	3.7	5.1
25	Дилижан	1	3.4	3.9	4.6	4.2	3.9	3.5	3.7	3.2	4.0	3.8	4.1	3.4	3.8
		7	3.6	3.8	4.5	4.2	3.5	3.1	3.7	3.2	4.0	3.6	4.2	3.5	3.7
		13	3.3	3.6	4.4	4.5	5.0	4.6	4.0	3.5	4.0	4.0	4.1	3.3	4.0
		19	3.6	3.8	4.8	4.7	5.0	4.6	4.3	3.9	4.5	4.3	4.3	3.3	4.3
34	Гарновит	1	3.1	3.8	3.5	3.6	3.3	2.6	1.6	1.3	1.3	2.2	2.9	3.1	2.7
		7	3.6	4.1	3.8	3.6	2.8	1.8	1.4	1.0	1.3	2.3	3.5	3.5	2.7
		13	3.4	3.7	4.5	5.2	5.2	4.8	3.6	3.0	2.8	3.4	4.1	3.5	3.9
		19	3.2	3.3	3.8	4.4	5.0	4.6	3.2	2.8	2.4	2.7	3.3	3.1	3.5
35	Раздан	1	4.8	4.6	4.4	4.0	4.3	3.4	3.1	2.7	2.5	2.8	4.0	4.6	3.8
		7	5.2	5.2	4.7	4.3	3.3	2.5	2.6	2.2	2.6	3.1	4.5	4.9	3.8
		13	4.2	4.3	4.1	5.6	5.6	4.9	3.7	3.2	3.5	3.6	4.3	4.1	4.3
		19	4.6	4.6	4.4	4.9	5.0	4.4	3.7	3.1	3.0	3.0	3.9	4.3	4.1
37	Арагац, высокогорная	1	4.7	4.9	4.8	4.7	4.4	3.1	2.3	1.8	1.8	3.5	4.5	4.2	3.7
		7	4.9	5.3	5.2	4.9	4.3	3.1	2.5	1.9	2.3	3.6	4.5	4.6	3.9
		13	4.8	5.2	5.6	5.8	5.9	6.2	5.8	5.0	4.8	5.2	5.0	4.6	5.3
		19	4.6	4.6	5.0	5.6	5.8	4.8	3.9	3.2	2.7	3.7	4.5	4.2	4.4
43	Камо	1	4.7	4.5	4.7	4.7	4.5	3.8	4.1	3.7	3.5	3.2	3.9	4.1	4.1
		7	5.3	5.6	5.0	4.5	3.8	3.3	3.9	3.5	3.7	3.4	4.0	4.8	4.2
		13	4.7	4.8	5.0	5.6	5.9	5.6	4.4	4.1	4.2	4.3	4.4	4.2	4.8
		19	4.3	4.3	4.8	5.2	5.6	5.3	4.8	4.2	3.7	3.5	3.7	3.8	4.4
50	Мазра	1	3.2	3.3	3.3	3.5	3.4	2.9	2.8	2.2	2.2	2.7	3.0	3.1	3.0
		7	3.8	3.8	3.8	3.6	3.0	2.3	2.2	2.0	2.3	2.9	3.4	3.6	3.1
		13	3.3	3.3	3.7	4.7	4.9	4.8	3.6	3.5	3.6	3.6	3.5	3.5	3.8
		19	3.4	3.5	3.9	4.2	4.7	4.3	3.4	2.9	2.8	3.0	3.3	3.2	3.6
56	Ереван	1	4.5	3.7	3.0	2.5	2.4	1.7	1.1	0.9	0.9	1.6	2.3	3.5	2.3
		7	5.7	5.0	3.7	3.1	2.2	1.4	1.1	0.8	1.0	2.1	3.3	4.8	2.8

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.

(4). Shnokh. (22). Kirovakan. (25). Dilizhan. (34). Garnovit.

(35). Razdan. (37). Aragats, high-mountain. (43). Kama. (50).

Mazra. (56). Yerevan.

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## Continuation of Table 7.

		13	4.2	4.0	4.1	3.9	3.2	2.4	1.4	1.3	1.4	2.1	2.8	4.1	2.9
		19	4.1	3.6	3.7	4.1	4.2	3.6	2.4	2.1	1.9	2.2	2.5	3.9	3.2
59	Яных	1	4.2	4.5	5.2	4.5	4.1	3.0	2.9	2.4	2.1	2.8	3.8	3.8	3.6
		7	4.8	5.0	5.1	4.5	3.6	2.4	2.7	2.2	2.1	3.0	4.1	4.1	3.6
		13	4.8	4.7	5.6	5.6	6.0	5.4	4.3	3.7	3.7	4.2	4.8	4.3	4.8
		19	4.3	4.5	5.3	4.9	4.9	4.2	3.6	3.0	2.7	3.0	3.7	3.8	4.0
64	Ехегнадзор	1	3.5	3.4	3.1	3.1	2.7	2.1	1.4	1.0	1.1	1.6	2.3	3.7	2.4
		7	3.9	4.2	3.6	3.1	2.3	1.5	1.0	0.9	1.0	1.9	2.9	4.0	2.5
		13	3.5	3.6	4.5	4.8	4.2	3.4	2.1	2.1	2.1	2.5	3.2	3.9	3.3
		19	3.2	3.3	3.3	3.7	3.7	3.3	2.1	1.8	1.6	1.8	2.2	3.4	2.8
71	Сисиян	1	3.2	3.6	4.4	4.5	4.1	3.4	3.0	3.1	4.9	4.3	3.9	3.2	3.8
		7	3.7	4.0	4.6	4.6	3.7	3.1	3.4	3.7	5.1	4.3	4.1	3.6	4.0
		13	3.5	3.9	4.6	5.5	5.1	4.3	3.1	2.7	3.2	3.6	3.8	3.3	3.9
		19	3.2	3.7	4.2	4.7	4.7	4.1	3.3	3.0	3.5	3.4	3.2	3.2	3.7
72	Горис I	1	3.1	3.5	4.1	4.1	4.2	4.0	3.6	3.3	4.7	4.3	4.1	3.3	3.9
		7	3.2	3.8	4.1	4.2	3.8	3.4	3.7	3.4	4.6	4.3	3.9	3.4	3.8
		13	3.0	3.4	4.2	5.0	5.3	4.8	3.6	3.3	4.4	4.5	4.1	3.2	4.1
		19	3.8	4.1	4.9	5.2	5.4	5.3	4.1	3.9	5.1	5.1	4.5	3.7	4.7
77	Мегри	1	3.4	3.2	3.7	3.7	2.7	2.0	1.6	1.5	2.3	2.6	3.1	2.9	2.7
		7	4.0	3.9	3.8	3.7	2.5	1.6	1.6	1.6	2.8	3.3	3.7	3.8	3.0
		13	3.0	2.8	2.9	3.3	2.9	1.7	1.1	0.9	1.5	2.0	2.7	3.0	2.3
		19	2.9	3.0	3.4	3.8	3.5	2.8	2.0	2.0	2.9	2.7	3.4	2.8	2.9

Key: (59). Yanykh. (64). Yekhegnadzor. (71). Sisian. (72).

Goris I. (77). Megri.

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TABLE 8.

## FREQUENCY OF BASIC CLOUD TYPES (%).

Месяц	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
5. Калинино											
I	23	3	3	42	14	2	4	4	37	9	2
II	24	4	5	38	16	3	5	5	39	11	2
III	30	5	4	35	18	5	6	8	38	13	3
IV	32	4	4	32	12	12	12	5	38	14	10
V	34	3	2	28	6	16	24	4	40	10	10
VI	22	1		26	3	21	25	3	44	6	6
VII	10			30	2	21	13	2	50	4	6
VIII	9	1		27	2	19	12	2	48	4	5
IX	9	1		18	2	16	11	4	47	7	8
X	20	4	2	26	3	11	9	6	43	7	4
XI	25	4	2	35	6	5	5	10	37	12	4
XII	23	4	4	38	10	3	3	5	35	10	1
(5a) Год	22	3	2	31	8	11	11	5	41	9	5
6. Шурабад											
I	17	4	6	32	16	1	2	10	30	12	3
II	16	7	9	26	17	1	2	10	28	13	2
III	20	6	6	28	16	1	3	9	32	14	2
IV	16	5	5	27	8	6	10	6	35	14	4
V	11	3	6	22	8	9	22	7	41	13	5
VI	6	3	2	15	5	13	23	6	36	8	4
VII	4	2		13	2	13	12	4	29	5	3
VIII	4	2	1	12	3	11	14	4	27	4	3
IX	5	3	1	14	4	9	11	5	29	6	4
X	10	5	2	22	6	4	7	8	30	8	5
XI	13	6	3	26	8	3	3	8	37	13	4
XII	13	4	6	28	12	1	3	10	31	12	3
Год (5a)	11	4	4	22	9	6	9	7	32	10	4
22. Кировакан											
I	24	2	9	30	10	1	4	4	44	14	1
II	25	1	9	32	14	2	5	6	44	13	
III	29	1	6	30	15	5	6	8	46	14	1
IV	26	2	8	27	10	12	12	12	47	11	2
V	32	2	8	29	6	17	24	11	51	6	2
VI	18	1	2	28	4	20	32	9	54	4	1
VII	6			36	4	17	17	9	58	3	2
VIII	8	1	1	30	3	18	15	8	56	3	1
IX	9	1	1	20	3	16	12	14	52	4	2
X	19	1	4	27	5	9	10	10	47	9	2
XI	25	1	5	28	6	4	4	12	45	10	2
XII	20	1	6	29	8	1	3	8	42	11	1
Год (5a)	20	1	5	29	7	10	12	9	49	8	1
23. Ленинанкан											
I	17		4	40	13			14	35	11	
II	18	1	5	42	16			12	37	10	
III	25	1	6	49	14	3		8	46	8	
IV	29	2	6	48	11	14	9	2	46	8	4
V	31	2	4	49	8	26	24	1	37	7	4
VI	20	2	2	44	3	32	25		30	3	3
VII	8	2	1	42	2	33	19		28	1	2
VIII	7	1	1	35	1	28	15		25	1	1
IX	9	1	2	30	2	20	12	1	30	2	2
X	19	2	4	36	6	12	6	2	42	5	2
XI	17	1	4	42	8	5	2	5	50	7	1
XII	17		6	38	11			10	42	10	
Год (5a)	18	1	4	41	8	14	9	5	37	6	2

Key: (a). Month. (5). Kalinino. (5a). Year. (6). Shurabad.  
(22). Kirovakan. (23). Leninakan.

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Continuation of Table 8.

(a) Месяц	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
24. Лермонтово											
I	23	3	14	43	13	4	2	13	24	8	10
II	22	3	14	42	14	4	2	14	26	11	12
III	24	3	13	44	16	8	3	18	27	13	16
IV	27	2	16	38	14	14	7	18	32	8	18
V	29	4	12	38	11	17	15	14	44	8	23
VI	16	2	4	34	6	20	18	16	48	4	24
VII	6	1	5	42	4	18	10	17	51	4	21
VIII	6	2	8	35	5	20	10	18	46	3	16
IX	7	1	6	28	5	18	7	20	40	3	20
X	19	4	5	36	6	14	4	16	32	4	15
XI	24	4	8	37	7	8	3	16	26	7	15
XII	22	3	13	36	10	4	2	11	21	5	12
(24a) Год	19	3	10	38	9	12	7	16	35	6	17
33. Севан, ГМС											
I	19		8	32	13			26	50	14	7
II	22		10	34	18		1	24	51	13	10
III	27	1	15	34	17	2	4	22	50	14	10
IV	28		14	30	18	12	14	19	49	8	8
V	26	1	11	33	14	24	22	13	47	6	8
VI	13		5	28	8	32	23	10	44	2	5
VII	3		1	32	4	30	14	12	50	2	2
VIII	4		1	27	3	28	12	10	47	2	2
IX	6		2	19	3	22	12	12	44	2	2
X	21	2	8	27	6	14	8	10	43	6	6
XI	22		10	28	9	6	4	17	50	8	6
XII	21		10	27	11	1	1	19	50	9	6
Год (24a)	18		8	29	10	14	10	16	48	7	6
36. Шоржа											
I	26	6	8	52	18	7	6	4	68	12	2
II	36	4	10	53	19	6	7	4	63	12	2
III	41	4	12	54	18	6	7	4	59	14	
IV	39	3	12	53	15	10	9	2	59	10	1
V	40	4	10	53	14	17	16	1	61	7	2
VI	25	2	2	46	8	26	18	1	60	4	2
VII	11	2	1	48	4	25	10	1	57	2	2
VIII	10	1	2	44	3	22	10	2	55	2	2
IX	11	1	2	35	4	18	10	2	58	2	2
X	24	4	4	42	8	9	6	1	55	6	2
XI	30	4	6	48	10	8	5	3	65	7	2
XII	30	3	8	48	14	6	5	3	70	8	1
Год (24a)	27	3	6	48	11	13	9	2	61	7	2
37. Арагац, высокогорная											
I	26	1	8	22	10	2		17	17	5	1
II	24	2	12	24	12	2		19	18	5	
III	32	2	14	24	10	4	1	21	24	5	1
IV	31	2	9	28	13	12	4	20	32	5	1
V	30	1	7	32	10	22	14	16	38	4	2
VI	12	1	2	28	5	29	22	10	34	2	2
VII	4			29	3	28	16	6	34	1	2
VIII	3		1	25	2	26	13	5	34	3	2
IX	6	1	1	18	2	21	12	5	32	2	1
X	17	2	5	21	4	12	5	12	36	2	1
XI	22	2	6	21	6	4	1	18	30	3	
XII	23	2	8	23	7	1		14	20	4	
Год (24a)	19	1	6	25	7	14	7	14	29	4	1

Key: (a). Month. (24). Lermontov. (24a). Year. (33). Sevan,  
GMS. (36). Shorzha. (37). Aragats, high-mountain.



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Continuation of Table 8.

(a) Месяц	Ct	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
55. Октемберян											
I	18	6	13	39	14	6		13	38	6	
II	20	7	11	44	13	8	2	8	42	5	
III	26	6	12	50	14	14	3	4	50	6	
IV	30	8	13	49	14	20	10	5	44	3	1
V	26	9	10	55	10	26	20	3	40	2	1
VI	22	7	5	46	6	30	18	1	31	2	
VII	15	8	3	45	5	30	10	2	30	1	
VIII	14	6	2	40	4	23	8	1	28		
IX	13	4	3	37	5	21	8	1	28		
X	20	5	6	43	6	16	6	2	39	2	1
XI	22	6	8	46	9	13	2	4	48	4	
XII	19	5	9	42	10	6		10	46	5	
(55a) Год	20	6	8	45	9	18	7	4	39	3	
56. Ереван											
I	16	4	8	42	26	2	1	15	27	10	1
II	20	4	9	44	26	5	3	14	32	10	1
III	21	3	10	41	20	11	6	4	36	7	2
IV	28	3	11	45	22	18	14	2	42	6	2
V	30	2	8	50	20	26	26	1	43	2	1
VI	16	2	3	40	10	32	23	1	29	1	
VII	4	2	1	43	4	30	14		26		
VIII	4	1	1	36	3	26	11		25		
IX	7	1	1	30	4	21	10		25	1	1
X	18	2	6	37	11	15	9	2	32	4	2
XI	21	2	6	44	16	9	2	5	38	6	2
XII	18	1	7	40	18	3		15	28	8	1
Год (55a)	17	2	6	41	15	16	10	5	32	5	1
68. Базарчай											
I	14	3	3	32	9	2		6	35	12	1
II	15	2	3	32	10	2	1	7	38	15	
III	18	3	5	32	13	4	3	9	39	15	
IV	17	2	4	36	12	8	9	8	41	10	2
V	18	3	3	32	10	15	17	6	46	4	2
VI	9	1	1	25	4	21	14	6	44	2	1
VII	2	1		28	2	20	8	6	43	1	
VIII	3			25	2	18	7	8	40	2	
IX	4		1	21	1	14	8	13	38	2	1
X	10	2	2	24	6	8	6	9	36	6	1
XI	14	3	4	30	9	5	2	7	38	9	1
XII	14	3	4	28	10	2	1	6	31	13	1
Год (55a)	12	2	2	29	7	10	6	8	39	8	1
69. Мартирос											
I	17	4	14	21	28	2	1	5	24	15	
II	19	4	12	24	29	2	1	4	25	17	
III	18	4	15	28	30	6	4	4	32	19	
IV	22	3	14	32	18	11	10	3	35	16	1
V	22	4	13	30	12	23	18	2	38	12	2
VI	12	2	9	25	6	29	14	2	31	5	1
VII	6	2	6	30	3	29	9	2	26	2	1
VIII	6	2	7	23	2	24	6	1	25	2	
IX	7	2	10	20	4	22	11	2	22	3	
X	18	4	12	22	9	16	4	2	27	7	1
XI	20	4	14	24	14	11	2	3	30	10	
XII	16	3	16	20	23	4	2	6	24	13	
Год (55a)	15	3	12	25	15	15	7	3	28	10	

Key: (a). Month. (55). Oktemberyan. (55a). Year. (56).

Yerevan. (68). Bazarchay. (69). Martiros.

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TABLE 8a.

FREQUENCY OF BASIC CLOUD TYPES AT DIFFERENT HOURS OF THE DAY %.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
5. Калининно												
I	1	13	1	3	32	13	1	2	4	33	8	2
	7	29	4	3	49	14	2	5	6	38	10	2
	13	38	7	5	51	16	4	6	3	43	10	2
	19	12	1	2	35	14	1	4	4	35	8	2
II	1	14	2	4	32	18	1	3	5	32	12	3
	7	34	9	6	45	16	2	5	7	41	12	3
	13	36	7	5	44	16	8	7	5	44	10	2
	19	12		5	30	13	1	5	4	40	11	2
III	1	14	1	4	24	17	1	3	8	30	15	2
	7	36	10	3	44	18	2	6	10	38	16	2
	13	41	6	6	39	20	15	9	6	40	10	4
	19	27	2	4	34	18	2	7	8	43	12	4
IV	1	15	2	3	26	9	3	5	5	37	15	9
	7	37	7	4	42	11	5	5	7	38	14	8
	13	42	4	3	26	11	35	21	3	31	12	11
	19	33	2	6	34	16	5	15	5	46	13	12
V	1	14	1	1	22	6	3	12	4	45	11	10
	7	36	3	2	41	7	11	7	6	42	10	9
	13	41	2	2	17	6	44	38	3	25	8	10
	19	43	5	3	30	7	8	37	3	49	10	11
VI	1	10		1	18	3	2	15	3	49	6	5
	7	16	2		38	2	17	8	3	43	7	6
	13	25			14	2	52	36	3	29	5	7
	19	36	2	1	33	4	13	40	2	53	5	7
VII	1	5			20	2	3	10	2	53	4	4
	7	7			42	2	14	5	3	47	5	5
	13	10	1		21	1	56	14	3	38	5	8
	19	16	1	1	35	4	10	22	2	63	4	5
VIII	1	4			19	2	3	11	2	48	4	4
	7	7	2		41	1	8	4	4	44	4	5
	13	10	1		20	1	60	14	1	34	4	5
	19	14	1		29	2	5	20	2	66	4	6
IX	1	3			14	1	2	9	3	48	8	8
	7	10	1		29	2	5	4	6	47	7	6
	13	14	1	1	12	1	54	14	2	33	6	8
	19	9	1		17	2	4	16	3	59	8	9
X	1	10	1	1	20	3	2	6	6	41	8	4
	7	28	8	2	32	4	5	5	9	46	6	4
	13	32	4	2	31	4	35	14	4	36	6	4
	19	10	1	3	22	2	3	11	5	48	9	6
XI	1	9	1	2	28	6	2	3	10	33	13	3
	7	34	8	2	38	7	2	5	13	41	12	5
	13	44	7	4	44	8	13	7	8	35	11	6
	19	12	2	2	30	4	2	4	10	40	12	4
XII	1	13	1	3	30	9	2	3	6	30	10	1
	7	32	5	4	44	11	2	4	5	36	12	1
	13	35	10	5	45	12	6	5	4	42	10	1
	19	12	1	4	32	10	2	2	5	33	8	1
(5a) Год	1	10	1	2	24	7	2	7	5	40	10	4
	7	26	5	2	40	8	6	5	7	42	10	5
	13	31	4	3	30	8	32	15	4	36	8	6
	19	20	2	3	30	8	5	15	4	48	9	6

Key: (a). Month. (b). Period. (5). Kalinino. (5a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Ci	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
6. Шурабад												
I	1	14	3	4	30	14		3	9	30	10	2
	7	18	6	7	37	18	1	3	15	35	13	3
	13	25	7	9	37	15	2	2	9	27	13	3
	19	11	2	4	22	15		2	9	27	11	3
II	1	11	7	6	25	19		2	11	27	15	2
	7	22	9	10	30	17	1	2	10	35	16	3
	13	21	8	11	28	16	2	2	11	26	11	3
	19	12	5	8	22	15		2	9	24	12	2
III	1	15	7	4	26	13		2	7	31	14	2
	7	24	8	7	34	14	1	3	9	39	16	3
	13	24	7	9	28	17	4	3	9	30	15	2
	19	15	4	6	25	18		3	11	30	12	2
IV	1	12	3	4	25	7		5	6	31	15	1
	7	20	7	6	31	8	1	5	6	33	14	5
	13	20	5	5	24	10	20	16	6	37	13	6
	19	13	5	5	29	9	3	12	8	40	16	6
V	1	5	2	2	16	7		9	8	40	14	2
	7	13	4	7	24	7	4	9	9	37	11	4
	13	11	3	8	22	7	27	35	5	43	12	5
	19	14	3	7	25	9	5	36	7	45	14	9
VI	1	3	2	3	13	4		13	6	34	7	2
	7	7	3	1	16	4	6	9	6	32	6	4
	13	5	3	1	14	5	40	36	4	40	6	3
	19	7	3	5	17	6	7	35	8	40	11	9
VII	1	2	2		12	1		6	4	26	6	1
	7	6	3	1	17	2	6	4	5	25	3	2
	13	6	1		12	2	38	17	5	30	3	3
	19	4	2		11	2	8	22	4	34	7	5
VIII	1	3	2		10	3	1	9	5	21	4	2
	7	6	3	1	16	2	5	5	4	21	3	2
	13	4	1	1	14	4	32	17	3	31	4	2
	19	3	2	1	10	3	7	24	3	34	6	5
IX	1	1	2	1	12	3	1	7	6	22	7	2
	7	9	3	1	15	2	3	4	4	23	5	4
	13	6	4	1	14	4	28	14	4	36	6	4
	19	4	2	2	13	5	4	18	5	34	7	5
X	1	5	3	1	18	7		4	9	26	8	3
	7	16	7	4	23	6	3	4	8	26	9	5
	13	15	6	2	25	7	13	11	9	36	9	5
	19	5	4	1	22	6	1	9	8	30	8	6
XI	1	7	4	1	25	8		3	7	33	13	2
	7	18	8	2	27	8	3	2	9	37	16	4
	13	18	6	5	29	7	8	3	8	42	11	4
	19	8	4	3	22	10		3	8	35	12	4
XII	1	7	2	6	24	11		3	11	31	12	3
	7	15	5	5	34	12	1	3	11	37	13	5
	13	21	4	7	30	14	2	4	9	33	10	2
	19	8	4	5	25	10		2	8	29	12	2
(6a) Год	1	7	3	3	20	8		6	7	29	10	2
	7	14	6	4	25	8	3	4	8	31	10	4
	13	15	5	5	23	9	18	13	7	34	9	4
	19	9	3	4	20	9	3	14	7	34	11	5

Key: (a). Month. (b). Period. (6). Shurabad. (6a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
22. Кировакан												
I	1	11		7	23	9		2	4	34	16	
	7	25	1	9	34	9		2	6	51	15	1
	13	45	4	15	43	12	3	8	5	51	12	2
	19	13	1	6	22	9		3	3	40	13	
II	1	12		8	21	11	1	4	6	38	15	
	7	33	2	7	40	16	1	5	8	50	16	
	13	44	2	13	43	14	5	7	5	50	10	1
	19	12	1	8	22	13	1	4	5	39	12	
III	1	16		5	19	13	1	5	8	31	16	1
	7	40	3	4	40	12	1	4	11	48	16	1
	13	37	1	5	32	17	15	8	6	52	12	2
	19	22		10	27	17	2	8	6	51	13	1
IV	1	15		5	21	9	1	7	10	42	12	2
	7	33	4	7	34	10	4	4	20	44	11	2
	13	34	1	11	22	11	37	18	10	48	10	2
	19	23	1	9	30	10	6	17	10	54	10	4
V	1	15	2	5	19	4		14	9	46	7	1
	7	30	2	8	43	5	6	6	17	54	6	1
	13	48	2	9	23	6	56	38	8	43	5	2
	19	36	3	10	31	9	7	38	11	60	6	3
VI	1	8			23	4	1	18	7	47	4	1
	7	15	1	2	38	2	8	9	14	58	3	1
	13	22	1	1	20	5	63	62	7	42	4	1
	19	28	1	5	33	7	8	41	8	69	4	2
VII	1	2			23	2		14	7	53	2	2
	7	4	1		46	3	5	7	12	60	3	2
	13	9		1	33	6	57	21	10	47	3	2
	19	11	1	1	44	6	6	26	8	73	4	4
VIII	1	2		1	20	2	1	12	5	52	3	
	7	12	2		42	2	5	6	11	58	4	1
	13	8		2	27	4	60	19	7	42	3	1
	19	8	1	2	31	3	4	23	8	70	2	3
IX	1	3			17	2		8	12	50	4	1
	7	11	2	1	27	3	3	3	21	51	5	2
	13	14	2	1	19	3	58	16	8	44	4	2
	19	7		1	16	4	2	19	14	61	4	4
X	1	5		2	20	5	1	6	8	43	11	1
	7	29	3	6	37	5	1	4	15	49	10	2
	13	33	1	8	33	6	34	15	6	46	8	2
	19	8		2	19	4	1	14	10	50	8	1
XI	1	11		3	19	4		2	13	36	11	2
	7	37	1	7	35	5	2	3	15	50	10	2
	13	42	2	9	37	8	15	7	9	50	8	2
	19	11		2	22	5		5	11	43	10	2
XII	1	8		4	21	8		2	7	35	11	1
	7	27	1	6	32	8		3	9	47	12	1
	13	37	2	11	40	11	4	4	7	47	9	2
	19	8		5	23	7		3	7	38	11	
(22a) Год	1	10		4	21	6	2	9	8	42	10	1
	7	25	2	5	37	7	3	5	13	52	9	1
	13	31	2	7	31	9	34	19	7	47	7	2
	19	16	1	5	27	8	3	17	8	54	8	2

Key: (a). Month. (b). Period. (22). Kirovakan. (22a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
28. Ленинскан												
I	1	6		4	30	9			13	29	11	
	7	19		1	47	10			17	46	11	
	13	32	2	7	52	21	1		13	33	11	
	19	10		5	31	12			13	32	12	
II	1	6		2	28	14			12	32	9	
	7	19	2	2	48	15			14	44	14	
	13	36	2	10	53	21	1		11	33	9	
	19	11		5	37	13			11	38	6	
III	1	11		3	34	9			7	34	9	
	7	30	2	5	58	11	1		8	54	9	1
	13	36	2	10	58	21	10	1	8	46	7	1
	19	22	1	5	46	14	1	1	7	49	7	
IV	1	11		4	33	7	1	2	3	39	7	1
	7	35	2	7	57	11	4	2	3	52	7	3
	13	38	3	7	53	14	39	19	2	36	9	7
	19	31	2	4	49	12	10	13	2	55	9	7
V	1	12		2	37	4	4	10	1	40	9	1
	7	35	3	4	53	6	11	9	2	43	6	3
	13	39	4	7	49	10	65	39	1	20	6	6
	19	39	2	4	57	10	24	37	1	46	8	8
VI	1	7		1	29	3	5	12		35	3	2
	7	17	1	1	48	2	12	8	1	37	3	2
	13	25	3	3	45	4	74	36		16	2	3
	19	29	2	2	53	4	37	44		34	4	6
VII	1	3		1	26	1	6	12		28	1	1
	7	6	2		48	1	12	7		35	1	1
	13	9	3	2	47	2	78	24		15	1	1
	19	12	3	2	47	3	37	32		33	2	4
VIII	1	2			24	1	2	9		24	2	1
	7	6	1	1	43	1	9	5		30		1
	13	10	1	1	38	1	78	17		10		
	19	11	1	1	36	2	24	30		36	2	3
IX	1	2		1	16	1	2	6	1	23	2	1
	7	10	1	1	35	2	4	4	1	37	2	1
	13	15	2	3	37	4	64	16		20	2	2
	19	8	1	1	31	3	9	20	1	41	3	3
X	1	6		2	24	4	1	3	2	34	4	2
	7	27	2	4	43	5	3	3	2	49	4	2
	13	33	4	7	48	8	39	9	1	39	6	4
	19	10		2	31	5	3	9	3	45	6	2
XI	1	7		3	30	5		1	6	40	7	1
	7	21	1	3	47	7	1	1	6	57	7	1
	13	33	2	6	55	11	17	3	5	55	7	2
	19	8		3	34	8	1	2	4	49	6	1
XII	1	8		5	27	9			10	37	11	
	7	19		5	43	9			12	49	10	
	13	32	2	9	53	15	2		11	43	9	1
	19	10		4	29	10			9	39	8	1
(23a) Год	1	7		2	28	6	2	5	5	33	6	1
	7	20	1	3	48	7	5	3	6	44	6	1
	13	28	2	6	49	11	39	14	4	30	6	2
	19	17	1	3	40	8	12	16	4	41	6	3

Key: (a). Month. (b). Period. (23). Leninakan. (23a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
24. Лермонтово												
I	1	10	1	10	35	14	1	1	13	15	8	7
	7	26	3	29	54	13	4	2	13	29	8	11
	13	44	8	10	54	12	10	2	13	32	7	11
	19	11	1	9	30	13	1	1	13	19	10	9
II	1	8	1	10	33	18	1	2	12	19	9	11
	7	35	7	29	55	13	4	2	16	28	12	15
	13	40	5	9	49	14	12	5	14	31	11	14
	19	7		10	31	11	1	1	14	26	11	10
III	1	9	1	10	34	16	2	3	20	17	16	15
	7	33	7	14	51	15	5	3	20	28	10	17
	13	39	4	11	44	19	19	4	16	33	11	15
	19	17	1	16	47	16	4	3	18	29	14	15
IV	1	16		9	31	14	3	3	19	24	10	13
	7	34	6	15	45	10	4	3	19	27	8	16
	13	37	3	10	33	14	41	14	13	33	7	22
	19	21	1	32	42	18	6	7	19	42	6	23
V	1	13		8	32	10	3	5	14	34	8	20
	7	32	6	10	47	7	6	4	16	38	6	17
	13	32	2	9	26	11	55	31	10	46	8	26
	19	39	6	22	47	17	5	21	16	56	9	30
VI	1	6	1	3	28	6	3	7	14	35	3	17
	7	15	2	4	40	3	10	3	19	42	3	16
	13	14	1	2	21	5	61	37	12	48	4	30
	19	31	2	7	46	10	7	26	20	66	5	34
VII	1	2		2	35	5	2	3	14	40	4	15
	7	4	1	6	48	4	7	2	19	46	3	15
	13	7	1	2	35	3	54	19	12	51	4	26
	19	9	1	11	49	6	7	16	22	68	5	28
VIII	1	4	1	2	30	7	4	5	15	37	3	12
	7	6	2	6	44	3	8	2	21	42	3	11
	13	5	1	3	25	3	63	19	13	46	4	20
	19	8	2	23	40	8	7	12	22	61	3	23
IX	1	2		1	26	5	4	4	20	30	3	13
	7	10	3	7	34	3	4	2	22	40	1	17
	13	13	1	4	23	4	57	13	14	42	4	24
	19	4		13	31	7	5	8	23	50	3	24
X	1	9	1	3	32	6	2	2	18	25	4	11
	7	29	11	7	47	5	4	1	16	30	3	13
	13	31	6	7	34	5	45	9	11	37	5	21
	19	7		3	29	9	4	4	20	34	4	15
XI	1	10	1	6	30	5	1	2	16	22	7	10
	7	34	10	14	50	7	3	3	17	25	7	16
	13	42	7	8	39	9	26	4	13	32	6	21
	19	12		4	30	7	1	2	16	24	7	12
XII	1	13	1	8	27	12		1	10	14	4	8
	7	27	6	26	47	9	3	3	13	24	7	14
	13	39	5	9	44	11	11	3	9	29	5	16
	19	11	1	8	25	9	1	2	10	16	5	8
(24a) Год	1	8	1	6	31	10	2	3	15	26	7	13
	7	24	5	14	47	8	5	2	18	33	6	15
	13	29	4	7	36	9	38	13	12	38	6	20
	19	15	1	13	37	11	4	9	18	41	7	19

Key: (a). Month. (b). Period. (24). Lermontov. (24a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Ci	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
33. Севан, ГМС												
I	1	11		5	22	10			25	41	15	8
	7	19		10	37	15			28	61	12	7
	13	34	2	14	46	13		1	25	55	13	7
	19	13		5	24	15			26	44	14	7
II	1	13		6	20	12			20	44	14	10
	7	24	1	11	41	20		1	28	58	12	9
	13	34	1	17	49	20	1	2	25	54	12	9
	19	16		8	25	17		1	21	47	13	10
III	1	14		6	21	13		2	22	44	13	8
	7	35	2	18	42	19		2	23	55	15	10
	13	37	1	21	43	19	7	5	22	50	14	12
	19	21		14	30	18		6	22	52	13	10
IV	1	16		8	22	15	2	7	16	45	10	7
	7	33	1	13	35	18	4	7	24	44	8	8
	13	35		16	33	18	36	22	18	46	8	9
	19	26		19	31	22	5	18	18	60	8	10
V	1	12		5	24	10	3	16	12	47	7	8
	7	29	1	13	43	13	11	9	16	48	4	5
	13	29	1	12	28	15	66	33	8	33	5	7
	19	34	1	15	36	19	16	32	16	60	8	11
VI	1	6		2	20	6	5	16	9	47	3	4
	7	10	1	3	35	4	20	10	11	42	2	4
	13	14		4	23	8	76	35	8	25	2	5
	19	23	1	10	34	13	26	32	14	61	3	6
VII	1	1			20	5	4	11	13	51	2	3
	7	2		1	39	3	18	7	14	52	2	2
	13	4			28	2	78	18	7	28	2	2
	19	6		2	40	5	18	19	15	67	2	3
VIII	1	2		1	21	2	3	11	8	48	2	2
	7	3		1	33	4	17	6	13	50	1	1
	13	4		1	25	2	79	16	4	23	1	1
	19	6	1	1	30	5	12	17	13	66	2	2
IX	1	3			15	3	2	9	10	40	2	2
	7	7		2	25	3	11	4	17	50	1	1
	13	10		2	19	3	71	18	6	28	2	2
	19	5		2	17	4	4	15	15	59	2	2
X	1	10		4	23	5	2	4	8	38	7	6
	7	32	3	11	33	6	5	3	14	48	5	5
	13	31	3	14	29	7	46	13	9	39	4	5
	19	10		3	24	6	2	10	9	46	6	7
XI	1	12		6	25	7	1	2	15	43	8	6
	7	28	1	13	33	10	3	3	20	56	8	6
	13	35	1	15	31	13	21	6	18	53	7	6
	19	13		5	23	7	1	3	16	46	7	6
XII	1	13		8	21	10		1	18	41	9	4
	7	22		12	27	12	1	1	23	59	9	6
	13	33	1	15	38	14	4	1	19	56	10	7
	19	15		6	22	9			17	45	8	5
(33a) Год	1	9		4	21	8	2	7	15	44	8	6
	7	20	1	9	35	11	8	4	19	52	7	5
	13	25	1	11	33	11	40	14	14	41	7	6
	19	16		7	28	12	7	13	17	55	7	7

Key: (a). Month. (b). Period. (33). Sevan, GMS. (33a). Year.



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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
36. Шоржа												
I	1	1	3	7	45	22	6	6	6	65	12	2
	7	34	7	9	60	16	6	6	4	74	11	1
	13	47	9	10	60	12	11	10	2	68	11	2
	19	23	5	4	42	23	4	4	4	64	13	1
II	1	24	1	8	45	23	5	4	4	58	13	1
	7	45	7	11	66	16	4	7	5	71	13	2
	13	50	7	14	59	14	10	10	2	64	11	2
	19	25	1	9	42	22	4	7	3	58	13	1
III	1	27		8	42	19	3	3	6	55	14	1
	7	50	9	16	59	14	5	6	4	64	13	
	13	54	5	15	60	15	15	11	2	59	14	1
	19	33	1	9	55	22	3	7	3	59	14	
IV	1	23		5	39	16	3	4	3	52	9	1
	7	44	5	10	54	11	3	5	3	52	9	1
	13	46	5	17	58	14	29	15	1	63	10	2
	19	43	2	15	60	19	3	11	1	68	12	1
V	1	22		3	40	13	2	5	2	60	7	1
	7	41	5	8	55	8	7	4	1	54	4	1
	13	46	3	14	49	15	47	30		54	7	3
	19	53	6	17	69	22	11	23	1	74	10	1
VI	1	13		1	33	9	4	10	1	60	2	1
	7	17	2	1	46	2	12	5	1	54	4	
	13	29	1	3	45	6	64	32	1	50	4	4
	19	42	4	3	62	14	23	23	2	75	7	2
VII	1	5			37	7	4	5	1	55	2	1
	7	7	1		50	1	13	3	1	55	2	
	13	12	2	2	41	3	62	19	1	47	2	3
	19	19	3	3	62	5	21	13	2	72	4	2
VIII	1	3		1	34	6	4	5	2	53	3	1
	7	5	2	1	46	1	8	3	2	54		
	13	12	1	3	40	1	66	18	1	46	1	5
	19	19	2	4	55	5	12	12	2	67	4	1
IX	1	5		1	29	3	3	6	2	53	2	1
	7	11	2	1	37	1	8	4	1	64	2	
	13	16	2	2	36	3	52	18	2	51	2	6
	19	11	1	2	39	7	8	10	2	64	3	1
X	1	12		2	36	8	3	3	1	49	5	1
	7	33	6	6	46	4	5	4	1	59	6	2
	13	37	7	6	49	8	27	13	1	57	5	3
	19	16	1	3	36	13	2	6	1	54	7	2
XI	1	16		4	42	12	4	5	4	61	7	1
	7	40	7	6	57	8	8	5	2	73	7	2
	13	43	6	9	54	10	15	6	2	66	7	2
	19	19	1	4	40	11	6	5	3	60	7	1
XII	1	22		7	40	20	3	3	4	68	8	1
	7	39	4	7	59	12	6	5	3	76	8	3
	13	41	6	10	55	10	10	6	2	70	8	1
	19	18	1	6	40	16	4	5	3	67	7	
(36a) Год	1	14		4	38	13	4	5	3	57	7	1
	7	30	4	6	53	8	7	5	2	62	7	1
	13	36	4	8	50	9	34	16	1	58	7	3
	19	27	2	7	50	15	8	10	2	65	8	1

Key: (a). Month. (b). Period. (36). Shorzha. (36a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
37. Арагац, высокогорная												
I	1	15		7	12	9	1		16	15	3	1
	7	26		7	29	12	2		19	20	5	1
	13	42	3	11	32	12	2		19	20	6	1
	19	22		9	16	9	2		15	14	6	1
II	1	14		9	16	8	1		17	15	5	
	7	27	4	13	35	15	1		21	20	7	1
	13	34	2	15	27	14	4	1	23	18	4	
	19	19		10	18	12	1		16	19	6	
III	1	17		9	18	9	1	1	15	19	5	1
	7	46	4	16	30	11	3	1	22	22	6	1
	13	33	4	18	24	10	9	1	26	23	5	1
	19	30	1	13	24	10	3		21	30	4	1
IV	1	15		7	22	12	3	2	14	26	4	1
	7	40	3	9	35	13	6	1	21	29	4	1
	13	38	1	10	23	11	32	6	21	29	5	1
	19	32	2	9	31	17	8	7	23	42	6	2
V	1	16	1	4	25	10	4	8	13	33	4	2
	7	34	2	6	36	8	10	3	16	35	3	1
	13	31		8	22	9	56	21	15	35	3	2
	19	40	2	9	44	13	17	26	20	50	4	2
VI	1	9		2	24	7	4	14	7	29	2	2
	7		1	2	30	3	19	5	10	30	1	
	13	14	1	3	19	3	66	28	13	37	1	2
	19	27	1	3	37	8	27	40	11	40	2	3
VII	1	2			24	3	6	10	2	27	1	1
	7	3	1		32	3	16	4	8	28	1	1
	13	4			23	2	62	23	10	38	1	2
	19	7	1	1	36	4	29	28	5	44	1	3
VIII	1	2		1	21	2	5	7	2	26	1	1
	7	3	1		29	1	14	4	6	24	11	1
	13	3		1	18	1	67	21	6	35		2
	19	5		1	32	4	17	20	6	49	1	2
IX	1	2		1	15	2	3	6	3	22	2	1
	7	6	1	1	23	2	9	4	8	27	1	
	13	8	1	2	14	2	63	19	5	35	1	1
	19	6	1	1	21	3	8	18	3	44	2	1
X	1	7		3	15	3	2	3	10	29	3	1
	7	24	4	6	28	4	7	3	14	33	1	
	13	24	2	8	24	3	36	8	15	39	2	1
	19	12		4	18	4	3	6	9	42	4	2
XI	1	10		5	15	7	1		17	23	4	
	7	30	3	7	31	4	1		17	33	3	
	13	33	4	9	25	5	13	2	20	32	3	
	19	13		4	14	7	2	1	16	31	3	
XII	1	12	1	7	17	7			11	14	5	
	7	30	3	7	29	6			16	27	4	
	13	37	3	10	28	8	2		17	21	4	
	19	13	1	8	17	6	1		12	18	4	
(37a) Год	1	10		5	19	7	3	4	11	23	3	1
	7	22	2	6	31	7	7	2	15	27	4	1
	13	25	2	8	23	7	34	11	16	30	3	1
	19	19	2	6	26	8	10	12	13	35	4	2

Key: (a). Month. (b). Period. (37). Aragats, high-mountain.

(37a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frb
55. Октябрьян												
I	1	12	3	13	30	12	2		11	32	7	
	7	20	9	11	46	14	6		15	48	8	
	13	33	11	19	52	18	13		14	40	4	
	19	8	2	10	29	11	4		12	34	5	
II	1	11	5	9	30	12	3	1	7	40	5	
	7	24	10	11	54	11	8	1	10	51	7	
	13	32	12	13	54	18	18	2	7	37	5	1
	19	12	2	10	36	11	3	2	8	41	4	
III	1	13	2	9	34	11	3	1	2	44	6	
	7	31	8	10	59	12	8	1	5	58	8	
	13	39	9	16	59	15	38	6	4	38	4	1
	19	22	6	11	50	17	7	5	4	61	4	1
IV	1	13	5	9	36	9	5	4	3	42	4	1
	7	36	9	12	52	13	11	5	5	50	3	1
	13	42	9	14	52	17	50	14	4	25	2	
	19	31	9	17	56	17	12	18	7	58	3	1
V	1	12	4	4	43	6	4	14	3	44	2	
	7	35	10	11	57	7	13	6	2	53	1	
	13	28	9	14	52	13	65	25	2	16	2	1
	19	29	13	12	68	12	20	37	5	48	4	2
VI	1	10	4	2	36	3	5	10	1	35	3	
	7	19	6	3	44	4	16	5	1	35	1	
	13	30	7	6	40	8	76	20	1	9	1	
	19	31	10	8	63	11	25	36	2	45	2	2
VII	1	10	5	1	32	4	6	7	1	28	1	
	7	13	9	2	47	3	12	3	1	31	1	
	13	19	7	5	40	4	77	10	1	10		
	19	17	9	5	61	10	23	18	3	52	1	1
VIII	1	8	4	1	29	3	4	5	1	23		
	7	13	8	2	46	3		3	1	28		
	13	17	5	3	34	2	72	9		10		
	19	17	9	3	53	9	17	17	1	50	1	1
IX	1	5	3	1	28	3	2	4	1	21	1	
	7	11	6	3	39	4	7	3	1	31		
	13	21	5	5	35	5	65	10	1	15		
	19	14	4	4	45	7	11	15	2	47	1	1
X	1	10	4	3	34	4	4	4	1	33	2	
	7	25	6	10	50	7	8	3	1	46	2	1
	13	33	7	9	50	8	47	7	2	30	2	1
	19	11	2	4	39	6	4	9	2	47	3	1
XI	1	12	3	6	35	7	3	2	4	41	5	
	7	29	9	9	56	10	10	2	5	57	3	
	13	34	9	10	57	11	33	4	4	45	4	
	19	14	2	7	37	8	5	2	3	48	3	
XII	1	11	3	7	32	8	3		8	37	6	
	7	23	6	10	50	10	5	1	11	55	7	
	13	33	7	12	54	12	14	1	10	46	4	
	19	8	3	6	34	8	2		9	44	4	
(55a) Год	1	11	4	5	33	7	4	4	3	35	4	
	7	23	8	8	50	8	9	3	5	45	3	
	13	30	8	10	48	11	47	9	4	27	2	
	19	18	6	8	48	11	11	13	5	48	3	1

Key: (a). Month. (b). Period. (55). Oktembryan. (55a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
56. Ереван												
I	1	10	4	7	31	22			16	20	11	
	7	16	5	9	45	29	1	1	16	33	12	1
	13	28	5	10	53	26	6	1	14	30	9	1
	19	12	2	6	37	25	1	1	15	26	10	1
II	1	11	3	8	35	25	1	1	14	23	10	
	7	22	8	8	53	26	1	3	15	40	12	
	13	30	3	13	49	27	17	5	14	31	8	2
	19	16	3	6	39	26	1	2	14	32	9	1
III	1	11	2	7	36	19	1	2	5	33	8	2
	7	33	6	11	57	24	3	3	6	45	11	2
	13	32	3	19	48	27	41	11	6	37	5	3
	19	9		1	23	11		6	1	31	4	
IV	1	14	2	6	38	16	2	5	2	31	7	2
	7	32	4	12	53	25	5	6	3	42	8	3
	13	37	4	15	42	21	55	20	1	29	5	3
	19	27	2	11	46	27	8	26	2	64	5	2
V	1	10	1	4	43	13	2	15	1	40	3	1
	7	29	4	9	60	19	10	9	1	45	3	1
	13	43	2	13	40	18	73	34	1	22	2	
	19	40	2	8	56	28	20	47	1	64	2	2
VI	1	6		1	34	7	4	12	1	30	1	
	7	11	3	2	50	7	12	8	1	26	1	
	13	22	2	4	28	8	78	29	1	10	1	1
	19	24	3	6	50	16	33	43	1	50	1	1
VII	1	2		1	34	3	3	10		23		
	7	2	1	1	51	5	7	6	1	22	1	
	13	6	2	1	33	3	78	12		13		
	19	8	3	2	55	7	32	28	1	44	1	2
VIII	1	1			28	3	3	6		20		
	7	3	1		45	2	6	4		21		
	13	6	1	2	27	2	77	11		8		
	19	4	2	2	43	5	17	23		52		
IX	1	2		1	23	2	2	6		17	1	
	7	6	2		39	4	5	5		23	1	1
	13	12	2	3	28	3	69	12		13	1	1
	19	7		1	32	6	8	19		46	1	1
X	1	7		3	29	9	2	5	2	23	4	2
	7	22	4	7	46	12	3	6	2	39	4	2
	13	30	3	12	42	12	52	11	2	26	2	1
	19	11	1	4	30	12	2	14	2	41	4	1
XI	1	11		3	36	14	1	1	4	30	6	1
	7	23	3	5	51	18	2	2	6	46	8	2
	13	35	3	10	52	17	32	4	4	39	6	3
	19	14	1	4	38	15	2	3	5	37	6	2
XII	1	9		6	32	16			16	20	6	1
	7	20	1	6	46	22	1		14	37	9	1
	13	30	3	12	50	21	10		15	31	9	3
(56a) Год	19	13		5	33	15	1		16	26	7	
	1	8	1	4	33	12	2	5	5	26	5	1
	7	18	4	6	50	16	5	4	5	35	6	1
	13	26	3	10	41	15	49	12	5	24	4	2
	19	15	2	4	40	16	10	18	5	43	4	1

Key: (a). Month. (b). Period. (56). Yerevan. (56a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
68. Базарчай												
I	1	9	2	2	28	7	1		6	30	14	1
	7	17	4	3	40	10	3		6	38	3	1
	13	23	4	4	35	11	4	1	5	40	16	
	19	9	1	2	23	8		1	6	32	14	1
II	1	9	1	3	27	9		1	8	31	15	
	7	20	5	3	44	11	2	1	8	41	15	
	13	23	3	4	33	12	7	2	7	42	15	1
	19	8	1	3	23	7		1	6	37	15	
III	1	11	2	2	27	12		2	10	34	14	
	7	23	4	3	41	12	2	2	9	41	14	
	13	25	3	8	31	17	10	5	8	40	15	1
	19	14	2	6	31	10	2	4	8	42	16	1
IV	1	8	1	1	32	10	1	7	8	32	10	1
	7	22	3	3	43	13	3	5	9	40	11	2
	13	22	3	5	30	13	23	13	8	45	9	1
	19	16	2	5	40	12	5	10	8	48	10	3
V	1	9	1	1	28	6	3	12	6	43	6	1
	7	17	3	3	34	8	12	7	7	42	4	2
	13	21	3	5	26	11	36	28	3	45	3	2
	19	24	5	4	42	15	11	20	6	56	5	4
VI	1	4		1	25	2	2	12	7	41	3	1
	7	7	1		28	3	13	4	7	42	3	1
	13	10	2	2	14	4	52	23	2	43	2	1
	19	15	2	2	33	5	16	19	6	52	2	2
VII	1	1			22	2	2	6	8	40	1	
	7	2	1		35	2	10	2	10	44	1	
	13	3	1		22	2	52	14	1	37	1	1
	19	4	1		33	4	15	10	6	51	1	1
VIII	1	1			21	2	1	4	11	41	2	
	7	4			30	1	5	2	14	42	1	
	13	3	1		19	2	54	13	1	33	1	
	19	4	1		29	2	10	8	8	45	2	1
IX	1	2		1	19	2	1	5	18	36	3	1
	7	5		1	25	1	4	2	19	40	3	1
	13	5	1	1	17	1	47	16	2	37	2	1
	19	3	1	1	23	1	5	8	14	41	2	1
X	1	2	1	1	20	4	1	4	11	30	7	1
	7	14	2	2	31	6	2	3	13	37	6	
	13	18	3	4	25	7	28	10	4	43	5	1
	19	5	1	1	21	5	1	7	8	33	7	1
XI	1	8	2	3	27	7	1	2	7	34	9	1
	7	20	5	2	36	8	2	1	9	42	9	1
	13	23	4	6	31	12	17	4	5	46	9	1
	19	6	1	4	26	8	1	3	7	31	9	2
XII	1	8	1	2	26	10		1	6	24	12	1
	7	23	4	3	39	11	2	1	7	33	13	1
	13	18	5	6	24	13	5	2	5	38	12	2
	19	9	2	3	23	7		1	5	28	14	1
(68a) Год	1	6	1	1	25	6	1	5	9	35	8	1
	7	14	3	2	36	7	5	2	10	40	7	1
	13	15	3	3	26	9	28	11	4	41	8	1
	19	10	2	3	29	7	6	8	7	41	8	2

Key: (a). Month. (b). Period. (68). Bazarchay. (68a). Year.

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Continuation of Table 8a.

(a) Месяц	(b) Срок	Cl	Cc	Cs	Ac	As	Cu	Cb	St	Sc	Ns	Frnb
69. Мартiros												
I	1	11	1	23	12	31	1		3	12	14	
	7	16	5	13	23	20	2	1	7	44	16	
	13	33	7	4	39	28	5	1	7	28	14	
	19	7	1	16	11	31	1	1	3	11	15	
II	1	9		21	16	33			3	14	17	
	7	26	9	10	24	24	2	1	5	44	20	
	13	34	5	4	40	30	8	3	6	26	15	1
	19	7	1	13	14	29		1	4	16	17	
III	1	8	1	24	17	33		2	2	19	19	
	7	26	7	8	29	22	3	2	4	44	17	
	13	30	8	5	44	31	21	7	6	33	19	1
	19	9	1	24	21	36	1	3	3	33	21	
IV	1	13	1	21	22	16	1	1	2	20	18	
	7	36	4	6	35	14	8	6	3	37	16	
	13	29	5	6	45	20	31	25	3	32	13	2
	19	12	1	24	25	20	4	8	3	50	18	2
V	1	9	1	27	20	13	4	4	1	30	15	
	7	32	7	6	35	7	19	7	3	36	9	1
	13	29	3	7	36	9	54	44	2	24	10	1
	19	19	3	11	28	17	14	19	2	60	13	5
VI	1	5		22	19	7	2	4	1	23	7	
	7	15	3	4	25	3	20	4	3	29	4	1
	13	12	2	1	32	4	75	32	1	15	3	1
	19	14	4	8	25	9	20	18	3	57	7	3
VII	1	1	1	16	24	6	4	3	1	17	4	
	7	7	2	3	34	2	19	2	5	24	2	
	13	9	3	1	31	2	72	21	1	13	1	1
	19	9	2	4	33	3	21	10	2	50	2	2
VIII	1	2	1	14	20	4	2	3		15	1	
	7	9	1	3	24	1	14	2	2	19	3	
	13	9	3	1	27	1	73	14	1	15	1	
	19	4	2	9	22	4	8	7	1	51	4	1
IX	1	5	1	13	14	5	2	2	1	16	4	
	7	9	3	6	20	2	13	21	5	24	2	
	13	10	3	2	28	2	68	18	1	15	1	
	19	4	1	20	18	5	4	4	1	35	4	1
X	1	8	1	18	21	9	2	2	1	21	7	
	7	27	9	8	26	5	10	3	3	35	6	1
	13	29	7	3	24	12	48	10	3	28	7	1
	19	8		21	19	10	2	3	2	22	7	1
XI	1	12	1	23	15	16	3	1	2	18	9	
	7	26	8	8	24	10	8	2	5	46	11	1
	13	30	5	5	39	14	28	6	4	36	10	
	19	10	1	19	17	17	4	1	1	22	10	1
XII	1	5	1	24	13	29	1		5	12	12	
	7	20	5	12	20	16	4	2	6	46	15	
	13	31	6	5	35	22	10	4	8	25	14	
	19	9	1	24	14	26	1	1	4	15	12	
(69a) Год	1	7	1	20	18	17	2	2	2	18	11	
	7	21	5	7	27	10	10	4	4	36	10	
	13	24	5	4	35	15	41	15	4	24	9	1
	19	9	2	16	21	17	7	6	2	35	11	1

Key: (a). Month. (b). Period. (69). Martiros. (69a). Year.

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TABLE 9.

FREQUENCY OF DIFFERENT GRADATIONS OF LOW CLOUD COVER WITH SPECIFIC GRADATIONS OF TOTAL CLOUD COVER (%).

(a) Облачность (баллы)		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
(б) общая	(с) нижняя													
5. Калинин														
0—2	0—2	30	25	20	18	16	22	24	30	30	31	26	29	25
3—7	0—2	12	11	10	8	5	6	4	8	4	7	9	13	8
	3—7	7	7	7	10	13	16	17	13	14	10	8	6	11
8—10	0—2	14	18	13	7	10	3	7		2	7	7	12	8
	3—7	11	14	13	13	13	12	5	11	6	8	11	12	11
	8—10	26	25	37	44	43	41	43	38	44	37	39	28	37
22. Кировск														
0—2	0—2	37	33	27	22	20	26	27	35	36	39	33	38	31
3—7	0—2	10	9	7	7	8	4	6	1	3	6	8	9	7
	3—7	9	9	9	11	14	20	17	22	14	11	8	8	13
8—10	0—2	11	14	11	6	3	1	1	4	1	5	7	8	6
	3—7	8	7	11	10	12	7	7	1	5	6	7	8	7
	8—10	25	28	35	44	43	42	42	37	41	33	37	29	36
23. Ленинск														
0—2	0—2	24	26	21	22	22	32	48	54	55	43	31	27	34
3—7	0—2	10	6	11	7	7	9	7	10	8	9	7	6	8
	3—7	4	4	5	9	12	18	18	15	14	11	7	4	10
8—10	0—2	11	17	18	13	12	8	13	6	9	12	15	9	12
	3—7	8	8	16	23	20	16	4	8	7	11	16	13	12
	8—10	43	39	29	26	27	17	10	7	7	14	24	41	24
37. Арагац, высокогорная														
0—2	0—2	33	30	26	24	24	37	45	53	58	43	36	37	37
3—7	0—2	7	7	8	7	6	7	6	7	4	6	7	8	7
	3—7	4	4	4	6	10	14	15	16	13	9	6	3	9
8—10	0—2	9	9	10	10	10	3	3	2	2	6	6	7	6
	3—7	3	3	5	7	8	7	5	3	3	3	3	4	4
	8—10	44	47	47	46	42	32	26	19	20	33	42	41	37
55. Октемберян														
0—2	0—2	32	31	27	29	33	54	66	72	74	54	39	33	45
3—7	0—2	5	8	11	12	13	9	9	9	8	10	10	5	9
	3—7	4	4	6	7	9	12	9	7	5	7	5	4	7
8—10	0—2	17	19	20	17	15	12	6	8	6	12	19	20	14
	3—7	7	8	15	18	18	7	4	1	3	7	11	6	9
	8—10	35	30	21	17	12	6	4	3	4	10	16	32	16
56. Ереван														
0—2	0—2	28	29	25	28	31	50	64	69	70	53	39	31	43
3—7	0—2	9	12	12	14	16	15	13	13	11	14	15	10	13
	3—7	2	3	7	8	11	12	9	8	6	6	4	2	6
8—10	0—2	11	11	14	10	8	1	2	1	2	7	12	12	8
	3—7	11	13	18	21	22	14	7	5	6	9	11	9	12
	8—10	39	32	24	19	12	8	5	4	5	11	19	36	18

Key: (a). Cloud cover (balls). (b). total. (c). low. (d). Year.  
(5). Kalinino. (22). Kirovakan. (23). Leninakan. (37). Aragats,  
high-mountain. (55). Oktemberyan. (56). Yerevan.

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SECTION 2. FOG.

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TABLE 1.

## AVERAGE NUMBER OF DAYS WITH FOG.

(a) № станции	(b) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X-III	IV-IX	(c) Год
1	Дебедашен (Ламбалу)	3	1	2	0.6	0.1	0.3	0.06	0.1	0.3	0.6	1	2	9	2	11
2	Шахназар	3	4	6	8	7	4	3	3	7	8	8	3	32	32	64
3	Кохб	5	4	6	5	2	1	0.3	0.6	2	4	6	5	30	11	41
4	Шнох	4	2	3	1	0.2	0.5	0.09	0.2	0.5	0.9	2	4	16	2	18
5	Калинино	3	4	6	4	2	1	0.7	0.6	2	5	6	5	29	10	39
6	Шурабад	6	4	4	0.8	0.1	0.5	0.2	0.4	0.8	1	3	5	23	3	26
7	Одзун (Узунлар)	2	2	2	0.8	1	0.5	0.3	0.3	0.8	2	3	2	13	4	17
8	Гукасян Верин	12	10	9	3	1	0.2	0.05	0.05	0.2	0.5	5	10	47	4	51
10	Севкар	6	5	7	7	2	2	0.6	0.6	2	5	6	7	36	14	50
11	Степанаван	2	2	2	2	1	0.7	0.2	0.3	0.9	3	4	3	16	5	21
13	Амасия	7	5	4	0.8	0.1	0.04	0.04	0.04	0.04	0.3	2	6	24	1	25
15	Узунтала	3	2	2	1	0.4	0.4	0.5	0.2	0.6	0.8	2	2	12	3	15
16, 16a	Берд I, II	7	6	8	6	3	1	0.04	0.4	2	4	7	7	39	12	51
17	Джаджур, ж. д.	7	5	3	1	0.9	0.2	0.2	0.1	0.04	1	4	6	26	2	28
19	Иджеван	6	4	4	3	1	0.8	0.3	0.4	1	3	5	6	28	6	34
20	Спитак	0.5	0.4	0.9	0.6	0.6	0.2	0.4	0.2	0.5	1	2	0.9	6	2	8
21	Айгедзор	5	3	4	5	2	0.9	0.1	0.6	2	3	5	5	25	11	36
22	Кировакан	0.8	0.4	0.7	0.2	0.5	0.8	0.1	0.1	0.2	0.9	2	1	6	2	8
23	Ленинакан	17	11	6	0.8	0.1	0.04	0.04	0.04	0.5	4	14	53	1	54	54
24	Лермонтово	4	4	8	7	5	3	2	2	7	10	9	5	40	26	66
25	Дилижан	2	0.9	2	1	0.7	0.4	0.2	0.3	1	3	2	11	3	14	14
26	Семеновка	6	6	8	10	10	9	9	8	14	10	9	6	45	60	105
28	Анкаван	0.2		0.1		0.1				0.1	0.8	4	1	2		2
29	Артик	7	5	5	2	0.4	0.2			0.1	0.8	4	7	29	3	32
30	Апаран	6	3	3	0.7	0.3			0.05	0.05	0.4	1	3	16	1	17
31	Красносельск	3	3	7	9	6	4	4	3	8	10	9	4	36	34	70
32	Севан, озерная ГМО	3	2	2	2	2	2	2	2	3	1	2	2	12	13	25
33	Севан, ГМС	9	8	7	2	0.6	0.2	0.05	0.05	0.2	0.5	4	8	37	3	40
34	Гарновит	4	4	5	3	2	2	0.6	0.1	0.8	3	5	4	25	9	34
35	Раздан	7	4	3	0.4	0.2			0.04	0.04	0.6	3	8	25	1	26
36	Шоржа	0.8	1	1	0.4	0.2	0.04				0.2	0.4	3	1		4
37	Арагат, высокогорная	18	17	19	18	17	10	6	3	5	12	15	16	97	59	156
39	Фонтан	6	4	2	0.9	0.5	0.04		0.04	0.1	0.6	2	6	20	2	22
40	Талин Верин	6	6	4	2	1	0.5	0.6	0.5	0.3	0.8	4	7	28	5	33

Key: (a). Station number. (b). Station. (c). Year. (1).

Debedashen (Lambalu). (2). Shakhnazar. (3). Kokhb. (4). Shnokh.

(5). Kalinino. (6). Shurabad. (7). Odzun (Uzunlar). (8).

Gukasyan Verin. (10). Sevkar. (11). Stepanavan. (13). Amasiya.

(15). Uzuntala. (16-16a). Berd .... (17). Dzhadzhur, railroad.

(19). Idzhevan. (20). Spitak. (21). Aygedzor. (22). Kirovakan.

(23). Leninakan. (24). Lermontov. (25). Dilizhan. (26).

Semenovka. (28). Ankavan. (29). Artik. (30). Aparan. (31).

Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS. (34).

Garnovit. (35). Razdan. (36). Shorzha. (37). Aragats,

high-mountain. (39). Fontan. (40). Talin Verin.

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## Continuation of Table 1.

42	Кошабулах	12	9	9	5	3	1	0.5	0.1	0.6	3	7	10	50	10	60
43	Камо	6	5	7	3	0.5	0.2		0.1	0.1	0.5	2	4	24	4	28
44	Арагац, ж. д.	2	2	0.7	0.2	0.1				0.1	0.3	1	4	10		10
45	Егевард	4	2	1	0.2			0.04			0.5	1	4	13		13
47	Ереатумбер	13	13	15	18	12	10	13	11		9	10	13	77	73	150
48	Шамиран	4	2	1	0.3	0.3	0.1			0.1	0.6	1	6	15	1	16
49	Каракерт (Кармрашен)	3	1	0.4							0.1	0.5	2	7		7
50	Мазра	1	1	1	0.3						0.3	1	5			5
51	Ереван, ГМО	6	6	5	1	0.6	0.1	0.03	0.03	0.1	0.3	3	6	26	2	28
52	Ереван, агро	4	2	0.5							0.2	0.7	3	10		10
54	Эчмиадзин	3	2	0.4	0.05		0.05				0.2	1	3	10		10
55	Октемберян	4	2	0.6	0.1						0.3	0.8	3	11		11
56	Ереван	13	7	2	0.2	0.1	0.2			0.1	1	4	10	37	1	38
57, 57a	Мартуни I, II	0.4	0.5	0.8	0.2	0.1		0.04					0.5	2		2
58	Гарни	5	4	2	0.8	0.6	0.2	0.1		0.2	0.7	2	6	20	2	22
59	Яных	1	1	2	2	1	0.9	1	0.6	2	1	1	1	7	8	15
60	Арташат	5	3	0.8	0.03						0.3	1	4	14		14
61	Чиманкенд	3	2	1	0.2	0.06				0.06	0.2	0.6	4	11		11
62	Джермук	1	1	1	1	0.3	0.1	0.05		0.1	0.3	2	2	7	2	9
63	Арарат	7	3	0.9	0.1	0.06					0.5	2	5	19		19
64	Екегнадзор	3	1	0.4							0.1	0.5	2	7		7
67	Ареви	2	0.7								0.3	2	5			5
68	Базарчай	0.6	0.8	1	2	1	1	0.8	1	3	3	2	1	8	9	17
69	Мартiros	9	9	9	6	3	1	0.4	0.3	0.8	3	5	8	43	12	55
70	Сисианский перевал	16	16	19	18	16	14	12	12	19	16	14	16	97	91	188
71	Сисиан	0.7	0.8	1	0.7	0.8	0.1		0.1	0.4	1	2	2	8		10
72, 72a	Горис I, II	8	9	13	10	6	2	0.8	2	6	9	11	8	58	27	85
73	Хотанан Верин	10	10	18	15	7	5	3	4	11	14	14	9	75	45	120
74	Кафан	2	1	2	0.8	0.4			0.1	0.4	0.6	2	2	9	2	11
77	Мегри	0.9	0.7	1	0.9	0.4				0.2	0.3	0.5	0.9	4	2	6

Key: (42). Koshabulakh. (43). Kama. (44). Aragats, railroad.  
 (45). Yegvard. (47). Yeratumber. (48). Shamiran. (49). Karakert  
 (Karmrashen). (50). Mazra. (51). Yerevan, GMO. (52). Yerevan,  
 agricultural. (54). Echmiadzin. (55). Oktemberyan. (56).  
 Yerevan. (57-57a). Martuni I, II. (58). Garni. (59). Yanykh.  
 (60). Artashat. (61). Chimankend. (62). Dzhermuk. (63). Ararat.  
 (64). Yekhegnadzor. (67). Areni. (68). Bazarchay. (69).  
 Martiros. (70). Sisian pass. (71). Sisian. (72-72a). Goris I,  
 II. (73). Khotanan Verin. (74). Kafan. (77). Megri.

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TABLE 1a.

## GREATEST NUMBER OF DAYS WITH FOG.

(a) Станция	(b) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X-III	IV-IX	(c) Год
2	Шахназар	11	14	12	20	15	15	6	11	15	17	25	9	60	67	123
3	Кохб	12	15	13	13	6	5	5	4	8	11	12	14	49	22	62
4	Шнох	14	9	7	3	2	3	1	2	2	4	7	12	32	6	32
5	Калинино	6	10	12	8	6	4	3	3	7	9	11	16	39	18	48
11	Степанаван	6	7	8	6	2	4	1	2	4	6	9	9	28	12	35
13	Амасия	21	12	10	6	1	1	1	1	3	11	13	45	6	47	
16, 16a	Берд I, II	17	17	16	15	8	5	1	5	7	12	14	16	62	27	79
17	Джаджур, ж. д.	17	20	13	7	6	2	3	1	1	10	10	14	56	17	68
19	Иджеван	12	13	13	8	5	2	2	3	5	10	10	14	52	15	57
20	Спитак	3	3	4	3	3	1	5	3	4	5	7	5	14	8	18
22	Кировакан	5	3	3	1	3	4	1	1	3	4	6	6	17	6	14
23	Ленинакан	25	22	17	5	1	1	1	1	2	13	24	88	6	81	
24	Лермонтово	10	11	17	17	11	7	9	10	19	17	15	13	64	50	104
25	Дилижан	6	7	7	4	2	2	4	4	2	4	8	6	18	7	27
26	Семеновка	18	24	18	20	24	22	16	18	26	23	20	19	83	93	159
29	Артик	14	13	14	6	2	1		1	3	12	14	41	7	47	
30	Апаран	15	9	13	2	2			1	2	4	8	40	4	35	
31	Красносельск	8	10	13	16	13	10	11	10	18	19	18	9	54	59	113
32	Севан, озерная ГМО	7	8	10	7	6	6	3	7	5	3	9	21	24	37	
33	Севан, ГМС	23	19	15	6	3	1	1	1	3	10	16	48	8	58	
35	Раздан	15	11	10	2	1			1	4	11	18	40	3	39	
36	Шоржа	4	16	8	2	2	1				2	2	20	5	20	
37	Арагатц, высокогорная	26	25	27	26	27	16	12	10	13	26	24	25	130	79	199
39	Фонтан	16	16	6	3	3	1		1	5	6	14	47	4	40	
42	Кошабулах	19	20	17	10	9	4	3	1	6	13	14	19	68	23	80
45	Егвард	10	11	6	1			1			3	6	17	27	1	26
54	Эчмиадзин	13	8	1	1		1				2	7	18	38	1	32
55	Октемберян	14	12	3	1						2	6	8	26	1	28
56	Ереван	27	19	14	2	1	1			2	6	12	22	67	4	57
57, 57a	Мартуни I, II	6	8	8	1	2		1				7	16	2	17	
59	Яных	6	4	5	7	4	5	4	3	5	5	5	6	14	14	27
60	Арташат	20	14	4	1						3	6	12	41	1	39
68	Базарчай	4	3	4	6	6	4	3	5	7	9	12	5	23	23	42
69	Мартирос	19	18	15	11	8	5	2	2	4	10	15	13	57	16	78

Key: (a). Station number. (b). Station. (c). Year. (2).

Shakhnazar. (3). Kokhb. (4). Shnokh. (5). Kalinino. (11).

Stepanavan. (13). Amasiya. (16-16a). Berd I, II. (17).

Dzhadzhur, railroad. (19). Idzhevan. (20). Spitak. (22).

Kirovakan. (23). Leninakan. (24). Lermontov. (25). Dilizhan.

(26). Semenovka. (29). Artik. (30). Aparan. (31). Krasnosel'sk.

(32). Lake Sevan GMO. (33). Sevan, GMS. (35). Razdan. (36).

Shorzha. (37). Aragats, high-mountain. (39). Fontan. (42).

Koshabulakh. (45). Yegvard. (54). Echmiadzin. (55). Oktemberyan.

(56). Yerevan. (57-57a). Martuni I, II. (59). Yanykh. (60).

Artashat. (68). Bazarchay. (69). Martiros.

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Continuation of Table 1a.

71	Сисиян	6	3	4	3	4	2	1	2	5	7	7	15	8	19
72, 72a	Горис I, II	14	18	24	18	15	8	4	5	17	24	20	25	84	118
73	Хотанан Верин	15	18	28	25	17	11	9	12	20	31	25	13	103	145
74	Кафан	7	5	8	4	3			2	2	3	7	8	23	37
77	Мегри	7	5	10	9	8				5	5	4	8	33	44

Key: (71). Sisian. (72-72a). Goris I, II. (73). Khotanan Verin.  
 (74). Kafan. (77). Megri.



Key: (a). Number of days with fog. (2). Shakhnazar. (3). Kokhb.  
(4). Shnokh. (5). Kalinino. (11). Stepanavan.

Continuation of Table 2.

(а) Число дней с туманом	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
13. Амасия												
0	4	13	9	61	91	96	100	96	96	78	22	
1-2	4	18	17	30	9	4		4	4	18	35	13
3-4	26	5	48	5						4	39	22
5-6	9	26	17	4								35
7-8	26	26										10
9-10	9	4	9									8
11-12	10	8									4	8
13-14	4											4
15-16	4											
17-18												
19-20												
21-22	4											
16, 16а. Берд I, II												
0	4			8	32	40	96	80	32	17		4
1-2	8	28	20	12	20	40	4	16	28	21	4	8
3-4	8	20	8	32	28	16			20	25	24	4
5-6	28	20	12	8	12	4		4	16	4	20	36
7-8	24	12	4	12	8				4	25	16	16
9-10	12	8	24							4	20	12
11-12	12	8	16	20						4	4	4
13-14			12	4							12	8
15-16			4	4								8
17-18	4	4										
17. Джаджур, ж. д.												
0	4	8	16	40	56	92	88	92	96	52	4	4
1-2	21	36	40	52	36	8	8	8	4	40	32	20
3-4	13	8	16	4			4				36	20
5-6	13	12	16		8					4	20	8
7-8	8	24	8	4							4	24
9-10	21	4								4	4	16
11-12	12	4										8
13-14			4									
15-16	4											
17-18	4											
19-20		4										
19. Иджеван												
0	4		14	14	36	45	77	77	46	27	9	
1-2	19	36	28	36	45	55	23	19	45	23	23	13
3-4	4	23	14	37	14			4		27	14	23
5-6	41	18	18	5	5				9	14	18	23
7-8	10	9	13	8						5	23	28
9-10	9	10	5							4	13	9
11-12	13		4									4
13-14		4	4									
20. Спитак												
0	67	80	54	59	59	75	83	92	74	48	26	57
1-2	29	12	29	37	37	25	13	4	22	31	35	31
3-4	4	8	17	4	4			4	4	17	27	8
5-6							4			4	8	4
7-8											4	
22. Кировакан												
0	64	72	52	76	64	44	92	88	88	60	16	40
1-2	28	24	44	24	32	48	8	12	8	24	44	48
3-4	4	4	4		4	8			4	16	36	8
5-6	4										4	4



Key: (a). Number of days with fog. (13). Amasiya. (16-16a). Berd  
I, II. (17). Dzhadzhur, railroad. (19). Idzhevan. (20). Spitak.  
(22). Kirovakan.

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Continuation of Table 2.

(а) Число дней с туманом	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
23. Ленинскан												
0			4	52	91	96	100	96	100	56	9	
1—2		17	22	43	9	4		4		44	31	
3—4			35								35	
5—6	4	9	5	5							13	9
7—8	4	17	8								4	22
9—10	13	5	13								4	5
11—12		9	5									5
13—14		4	4								4	18
15—16	13	22										8
17—18	13	9	4									4
19—20	26	4										8
21—22	9	4										8
23—24	9											13
25—26	9											
24. Лермонтово												
0	16	26		5		16	21	42	5			16
1—2	21	16	5	10	16	26	42	27	11		11	
3—4	11	17	16	17	32	32	26	11	11	5	5	21
5—6	37	21	27	32	32	16		10	26	32	11	26
7—8	10	10	11	6	10	10			11	6	6	16
9—10	5	5	15	5	5		11	10	16	16	28	16
11—12		5	11	5	5				5	10	11	
13—14			5	10					10	5	11	5
15—16			5	5						21	17	
17—18			5	5						5		
19—20								5				
25. Дилижан												
0	32	59	43	21	32	69	100	90	75	50	15	15
1—2	37	31	26	68	68	31		5	25	35	40	60
3—4	21	5	16	11				5		15	15	20
5—6	10		10								20	5
7—8		5	5								10	
26. Семеновка												
0	8	8		4	4			4			4	13
1—2	4	32	21	4	4			12	4		12	16
3—4	28	8	13	4	8	12		12		8	4	5
5—6	24	12	13	16	12	16	28	20	12	16	8	21
7—8	16	12	5	8	8	20	32	12	4	16	16	16
9—10	4	16	12	8	24	24	4	4	8	26	28	13
11—12	8	4	16	28	12	16	20	12	8	5	16	4
13—14		4	4	8	8		8		8	8	4	8
15—16	4		4	8	4		8	16	28			
17—18	4		12	4	8	8		8	4	17		
19—20				8	4				12		8	4
21—22						4						
23—24		4			4				4	4		
25—26									8			
29. Артик												
0	4	14	10	29	66	76	100	100	90	62	14	4
1—2	10	20	24	43	34	24			10	24	24	24
3—4	15	24	20	24						14	29	14
5—6	14	14	24	4							15	
7—8	19	4	10								14	15
9—10	29	10	8									24
11—12		4									4	9
13—14	9	10	4									10

Key: (a). Number of days with fog. (23). Leninakan. (24).  
Lermontov. (25). Dilizhan. (26). Semenovka. (29). Artik.

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Continuation of Table 2.

(а.) Число дней с туманом	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
30. Апаран												
0	5	16	26	48	85	100	100	95	95	70	50	5
1—2	21	32	27	52	15			5	5	30	25	40
3—4	16	37	26								25	20
5—6	21	10	11									25
7—8	21											10
9—10	6	5										
11—12	5		5									
13—14			5									
15—16	5											
31. Красносельск												
0	9	14	4			4		18	9		4	9
1—2	36	46	14	4	27	28	28	32				18
3—4	27	19	18	19	10	41	32	23	14	5	9	23
5—6	23	9	14	4	23	14	27	14	19	29	14	23
7—8	5	4	9	19	18	9	5	9	9	19	14	18
9—10		8	23	9	9	4	4	4	19	9	23	9
11—12			14	18	9		4		9		23	
13—14			4	9	4				8	19	5	
15—16				18					9	14	4	
17—18									4		4	
19—20										5		
32. Севан, озерная ГМО												
0	24	38	47	29	47	33	29	57	25	38	33	24
1—2	33	34	24	38	14	43	33	15	30	53	38	48
3—4	19	14	19	9	24	10	38	10	20	5	29	10
5—6	10	10		19	15	14		14	15	4		10
7—8	14	4		5				4	10			4
9—10			10									4
33. Севан, ГМС												
0			5	15	60	85	95	95	85	70	5	
1—2		10	20	55	35	15	5	5	15	25	35	5
3—4	20	15	5	20	5					5	25	20
5—6	20	35	30	10							20	5
7—8	15		10								10	25
9—10	15	10	10								5	25
11—12	10	10	5									5
13—14	5	10										
15—16	5	5	15									15
17—18	5											
19—20		5										
21—22												
23—24	5											
35. Раздан												
0		15	15	70	85	100	100	100	95	70	15	
1—2	10	20	30	30	15				5	20	35	
3—4	20	25	35							10	35	35
5—6	10	5	10								10	15
7—8	35	25	5									10
9—10	5	5	5									15
11—12	15	5									5	5
13—14												5
15—16	5											10
17—18												5

Key: (a). Number of days with fog. (30). Aparan. (31).

Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS. (35).

Razdan.

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Continuation of Table 2.

(а) Число дней с туманом	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
36. Шоржа												
0	58	79	67	71	83	96	100	100	100	100	88	72
1—2	29	13	17	29	17	4					12	28
3—4	13	4	4									
5—6			4									
7—8			8									
9—10												
11—12												
13—14												
15—16		4										
37. Арагац, высокогорная												
0								16	8			
1—2						8	16	20	16			
3—4						4	24	36	28	8		
5—6					4		24	20	20	12	4	
7—8					4	28	12	4	12	20	4	12
9—10	4	4		4	4	20	16	4	12	8	4	4
11—12	12	16		4	4	20	8			8	16	20
13—14		8	20	8	20	8			4	4	12	4
15—16	12	20	12	12	8	12				24	20	16
17—18	20	28	8	40	8					8	20	16
19—20	16	8	36	16	28						4	12
21—22	16	4	8	4	4						8	
23—24	16	8	4	8	8					4	8	8
25—26	4	4	4	4						4		8
27—28			8		8							
39. Фонтан												
0	4	9	19	36	68	96	100	96	86	77	23	4
1—2	9	27	38	59	28	4		4	14	9	36	32
3—4	32	18	34	5	4					10	18	5
5—6	18	23	9							4	23	9
7—8	19	5										14
9—10		9										14
11—12	5	5										4
13—14	9											18
15—16	4	4										
42. Кошабулах												
0			4	4	12	28	72	92	80	28		
1—2		4		8	32	60	24	8	12	40	16	8
3—4	12	16	12	32	28	12	4		4	4	8	4
5—6	4	8	8	24	12				4	16	28	12
7—8	4	16	20	20	12					4	16	16
9—10	16	20	12	12	4					4	8	16
11—12	12	12	28								8	8
13—14	16	12	8							4	16	20
15—16	20	8	4									8
17—18	12		4									4
19—20	4	4										4
45. Егвард												
0	22	50	66	84	100	100	96	100	100	71	48	20
1—2	26	8	21	16			4			21	28	24
3—4	27	12								8	16	28
5—6	4	13	13								8	12
7—8	13	13										4
9—10	8											4
11—12		4										4
13—14												
15—16												
17—18												4

Key: (a). Number of days with fog. (36). Shorzha. (37). Aragats,  
high-mountain. (39). Fontan. (42). Koshabulakh. (45). Yegvard.





Key: (a). Number of days with fog. (55). Oktemberyan. (56).  
Yerevan. (57-57a). Martuni I, II. (59). Yanykh. (60). Artashat.  
(68). Bazarchay.



Key: (a). Number of days with fog. (69). Martiros. (71). Sisian.  
(72-72a). Goris I, II. (73). Khotanan Verin. (74). Kafan.

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Continuation of Table 2.

(a) Число дней с туманом	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
77. Мегри												
0	60	72	64	80	92	100	100	100	96	88	76	71
1-2	28	16	20	8	4					8	12	13
3-4	8	8	4								12	8
5-6		4	4	8					4	4		4
7-8	4		4		4							4
9-10			4	4								

Key: (a). Number of days with fog. (77). Megri.

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TABLE 2a.

## FREQUENCY OF DIFFERENT NUMBER OF DAYS WITH FOG IN A YEAR.

(a) Число дней с туманом	(b) Повторяе- мость (%)	Число дней с туманом	(a) Повторяе- мость (%)	Число дней с туманом	(b) Повторяе- мость (%)
<b>3. Кокб</b>		71-75		16-20	21
21-25	4	76-80	8	21-25	
26-30	8	<b>17. Джаджур, ж. д.</b>		26-30	10
31-35	30	6-10	4	<b>26. Семеновка</b>	
36-40	21	11-15	4	66-70	4
41-45	4	16-20	21	71-75	4
46-50	4	21-25	13	76-80	5
51-55	17	26-30	25	81-85	9
56-60	8	31-35	17	86-90	14
61-65	4	36-40	4	91-95	9
<b>4. Шнох</b>		41-45	4	96-100	5
1-5	4	46-50	4	101-105	
6-10	14	51-55		106-110	5
11-15	14	56-60		111-115	14
16-20	27	61-65		116-120	5
21-25	18	66-70	4	121-125	
26-30	18	<b>19. Иджеван</b>		126-130	
31-35	5	11-15	9	131-135	4
<b>5. Калинин</b>		16-20		136-140	4
16-20	4	21-25	19	141-145	
21-25	5	26-30	18	146-150	4
26-30	14	31-35	5	151-155	5
31-35	14	36-40	18	156-160	9
36-40	18	41-45	5	<b>29. Артик</b>	
41-45	27	46-50	18	11-15	5
46-50	18	51-55	4	16-20	10
<b>11. Степанаван</b>		56-60	4	21-25	19
1-5	5	<b>20. Спитак</b>		26-30	19
6-10	10	1-5	30	31-35	23
11-15	15	6-10	35	36-40	19
16-20	20	11-15	26	41-45	
21-25	25	16-20	9	46-50	5
26-30	20	<b>22. Кировакан</b>		<b>30. Апаран</b>	
31-35	5	1-5	24	1-5	5
<b>13. Амасия</b>		6-10	52	6-10	
11-15	4	11-15	24	11-15	48
16-20	30	<b>23. Леникан</b>		16-20	21
21-25	31	16-20	4	21-25	11
26-30	13	21-25		26-30	10
31-35	5	26-30	9	31-35	5
36-40	4	31-35	4	<b>31. Красносельск</b>	
41-45	4	36-40	9	41-45	5
46-50	9	41-45	13	46-50	
<b>16, 16a. Берд I, II</b>		46-50		51-55	9
16-20	4	51-55	13	56-60	10
21-25		56-60	5	61-65	14
26-30	4	61-65	13	66-70	10
31-35	4	66-70	13	71-75	14
36-40	13	71-75	9	76-80	9
41-45	8	76-80	4	81-85	19
46-50	17	81-85	4	86-90	
51-55	13	<b>25. Дилижан</b>		91-95	5
56-60	4	1-5	5	96-100	
61-65	8	6-10	37	101-105	
66-70	17	11-15	27	106-110	
				111-115	5

Key: (a). Number of days with fog. (b). Frequency (%). (3).  
Kokhb. (4). Shnokh. (5). Kalinino. (11). Stepanavan. (13).  
Amasiya. (16-16a). Berd I, II. (17). Dzhadzhur, railroad. (19).  
Idzhevan. (20). Spitak. (22). Kirovakan. (23). Leninakan. (25).  
Dilizhan. (26). Semenovka. (29). Artik. (30). Aparan. (31).  
Krasnosel'sk.

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Continuation of Table 2a.

(a) Число дней с туманом	(b) Повторяе- мость (%)	Число дней с туманом	Повторяе- мость (%)	Число дней с туманом	Повторяе- мость (%)
32. Севан, озерная ГМО		56-60 16		69. Мартирос	
6-10	5	61-65	32	36-40	10
11-15	25	66-70	4	41-45	5
16-20		71-75	12	46-50	20
21-25	25	76-80	4	51-55	30
26-30	20	45. Егвард		56-60	5
31-35	20	0	4	61-65	20
36-40	5	1-5	9	66-70	5
33. Севан, ГМС		6-10	32	71-75	
21-25	15	11-15	23	76-80	5
26-30	5	16-20	14	71. Сисиан	
31-35	10	21-25	9	1-5	9
36-40	20	26-30	9	6-10	35
41-45	30	55. Октемберян		11-15	17
46-50	5	1-5	26	16-20	9
51-55	10	6-10	39	72, 72а. Горис I, II	
56-60	5	11-15	9	51-55	4
35. Раздан		16-20	13	56-60	
11-15	5	21-25	9	61-65	8
16-20	25	26-30	4	66-70	4
21-25	15	56. Ереван		71-75	16
26-30	20	21-25	14	76-80	12
31-35	20	26-30	5	81-85	12
36-40	15	31-35	19	86-90	8
36. Шоржа		36-40	29	91-95	8
0	8	41-45	14	96-100	16
1-5	72	46-50	14	101-105	4
6-10	8	51-55		106-110	
11-15	8	56-60	5	111-115	
16-20	4	57, 57а. Мартуни I, II		116-120	8
37. Арагац, высокогорная		0	48	73. Хотанан Верин	
116-120	4	1-5	36	92-95	6
121-125		6-10	8	96-100	11
126-130		11-15	4	101-105	
131-135	12	16-20	4	106-110	5
136-140	8	59. Яных		111-115	5
141-145	4	1-5	4	116-120	11
146-150	8	6-10	30	121-125	28
151-155	20	11-15	31	126-130	11
156-160	8	16-20	22	131-135	6
161-165	16	21-25	9	136-140	6
166-170	8	26-30	4	141-145	11
171-175		60. Арташат		74. Кафан	
176-180	4	1-5	17	1-5	12
181-185		6-10	21	6-10	40
186-190		11-15	24	11-15	20
191-195	4	16-20	14	16-20	20
196-200	4	21-25	13	21-25	
39. Фонтан		26-30	7	26-30	4
6-10	10	31-35		31-35	
11-15	19	36-40	4	36-40	4
16-20	10	68. Базарчай		77. Мегри	
21-25	23	6-10	8	0	38
26-30	19	11-15	21	1-5	33
31-35	5	16-20	46	6-10	13
36-40	14	21-25	8	11-15	
42. Кошабулах		26-30	13	16-20	8
41-45	4	31-35		21-25	
46-50	8	36-40		26-30	
51-55	20	41-45	4	31-35	4
				36-40	
				41-45	4

Key: (a). Number of days with fog. (b). Frequency (%). (32).  
Lake Sevan GMO. (33). Sevan, GMS. (35). Razdan. (36). Shorzha.  
(37). Aragats, high-mountain. (39). Fontan. (42). Koshabulakh.  
(45). Yegvard. (55). Oktemberyan. (56). Yerevan. (57-57a).  
Martuni I, II. (59). Yanykh. (60). Artashat. (68). Bazarchay.  
(69). Martiros. (71). Sisian. (72-72a). Goris I, II. (73).  
Khotanan Verin. (74). Kafan. (77). Megri.



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TABLE 3.

## AVERAGE DURATION OF FOG (HOURS).

(a) Станция	(b) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X-III	IV-IX	(c) Год	(d) Средняя продолжительность тумана в день с туманом		
																	X-III	IV-IX	год
5	Калинино . . . . .	12.8	13.4	22.7	10.9	5.6	2.9	1.3	1.5	5.3	17.6	34.9	29.9	131.3	27.5	158.8	4.5	2.8	4.1
17	Джаджур, ж. д . . . .	49.0	24.1	12.9	2.4	2.1	0.04	0.1		0.1	2.2	14.6	36.6	139.4	4.7	144.1	5.4	2.4	5.2
19	Иджеван . . . . .	50.6	30.2	36.2	21.2	6.2	4.0	2.3	2.4	8.4	21.0	42.7	59.0	239.7	44.5	284.2	8.7	7.4	8.4
22	Кировакан . . . . .	2.9	2.2	2.0	0.8	2.0	1.8	0.3	0.3	0.6	1.9	7.4	5.3	21.7	5.8	27.5	3.6	2.9	3.4
23	Ленинакан . . . . .	141.7	86.2	39.5	2.9	0.5	0.2		0.2		1.9	18.5	106.7	394.5	3.8	398.3	7.6	3.8	7.5
26	Семеновка . . . . .	48.9	40.4	69.1	82.7	69.4	58.8	57.4	56.1	118.1	82.5	78.6	51.0	370.5	442.5	813.0	8.2	7.4	7.7
31	Красносельск . . . . .	15.4	16.6	41.5	66.2	30.0	12.9	15.6	10.8	39.0	53.7	70.5	24.7	222.4	174.5	396.9	6.2	5.1	5.7
33	Севан, ГМС . . . . .	73.2	58.5	37.7	6.4	1.2	0.2	0.01	0.1	0.2	1.2	21.0	65.2	256.8	8.1	264.9	6.9	2.7	6.6
35	Раздан . . . . .	51.2	27.1	15.2	1.1	0.1				0.04	1.6	12.5	59.4	167.0	1.2	168.2	6.4	1.2	6.2
43	Камо . . . . .	29.2	24.0	40.2	12.4	1.4	0.1		0.1	0.4	2.0	19.2	15.6	130.2	14.4	144.6	5.5	3.6	5.2
55	Октемберян . . . . .	24.7	10.1	2.3	0.3						0.6	3.4	16.7	57.8	0.3	58.1	5.3	0.3	5.3
56	Ереван . . . . .	92.8	39.5	9.9	0.7	0.2	0.6			0.1	3.7	14.4	51.3	211.6	1.6	213.2	5.7	1.6	5.6
59	Яных . . . . .	4.2	2.7	4.6	5.7	2.9	2.0	1.8	1.0	3.0	2.6	2.8	5.2	22.1	16.4	38.5	3.2	2.0	2.6
72, 72a	Горис I, II . . . . .	67.3	83.0	146.8	107.4	37.0	14.7	5.5	9.8	64.8	90.7	118.8	76.4	583.2	239.2	822.4	10.1	8.9	9.7
74	Кафан . . . . .	9.9	5.2	8.0	1.6	1.0			0.7	1.0	1.1	4.8	6.0	35.0	4.3	39.3	3.9	2.2	3.6

Key: (a). Station number. (b). Station. (c). Year. (d).

Average duration of fog during a day with fog. (5). Kalinino. (17).

Dzhadzhur, railroad. (19). Idzhevan. (22). Kirovakan. (23).

Leninakan. (26). Semenovka. (31). Krasnosel'sk. (33). Sevan,

GMS. (35). Razdan. (43). Kama. (55). Oktemberyan. (56).

Yerevan. (59). Yanykh. (72-72a). Goris I, II. (74). Kafan.

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TABLE 3a.

DURATION OF FOG AT DIFFERENT TIMES OF THE DAY (HOURS).

(a) Станция	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
5	Калинино . . . . .	18-24	3.0	3.5	4.6	2.7	0.5	0.5		0.3	0.5	2.6	8.9	7.1	34.2
		24-6	3.8	3.9	9.0	4.1	2.8	1.4	0.6	0.6	2.0	7.2	12.2	9.1	56.7
		6-12	4.3	5.2	8.0	3.5	1.9	0.7	0.6	0.6	2.8	7.4	11.2	10.1	56.3
		12-18	1.7	0.8	1.1	0.6	0.4	0.3	0.1			0.4	2.6	3.6	11.6
17	Джаджур, ж. д. . . . .	18-24	10.2	5.8	3.6	1.1	0.3	0.04	0.1			0.5	2.0	7.3	30.9
		24-6	10.2	6.2	3.7	0.5	0.5					0.4	4.1	8.1	33.7
		6-12	14.2	7.2	3.4	0.7	0.9					0.8	6.2	12.3	45.7
		12-18	14.4	4.9	2.2	0.1	0.4			0.1	0.5	2.3	8.9	33.8	
19	Иджеван . . . . .	18-24	12.6	6.4	7.8	3.4	0.9	0.4	0.3	0.5	1.4	4.3	9.6	15.0	62.6
		24-6	15.0	7.5	10.3	4.7	1.3	1.0	0.7	0.6	2.4	7.3	11.0	17.0	78.8
		6-12	11.0	9.0	11.5	8.3	3.4	2.0	1.0	1.0	3.6	7.3	14.1	12.4	84.6
		12-18	12.0	7.3	6.6	4.8	0.6	0.6	0.3	0.3	1.0	2.1	8.0	14.6	58.2
22	Кировакан . . . . .	18-24	0.4	0.1	0.04	0.1	0.04	0.04				0.6	0.6	0.4	2.2
		24-6	1.0	0.6	0.3	0.3	1.1	0.6	0.1	0.1	0.3	2.7	0.9	8.1	
		6-12	1.4	1.2	1.7	0.4	0.9	1.0	0.2	0.2	0.5	1.0	4.1	3.3	15.9
		12-18	0.1	0.3									0.04	0.7	1.3
23	Ленинакан . . . . .	18-24	27.8	13.6	6.0	0.3						1.7	17.6	67.0	
		24-6	36.3	25.8	11.0	1.1	0.2	0.1		0.2		0.6	3.4	26.8	105.5
		6-12	50.1	35.0	17.4	1.3	0.3	0.05		0.01		1.3	10.1	42.6	158.2
		12-18	27.5	11.8	5.1	0.2							3.3	19.7	67.6
26	Семеновка . . . . .	18-24	11.8	10.2	17.3	25.4	19.2	17.7	14.4	14.1	34.3	25.0	23.9	13.8	227.1
		24-6	14.1	11.0	20.4	25.6	20.0	16.6	15.5	13.9	33.4	22.6	21.4	14.9	229.4
		6-12	11.9	10.3	16.0	15.5	13.6	10.8	14.0	13.5	24.7	15.1	15.0	11.6	172.0
		12-18	11.1	8.9	15.4	16.2	16.6	13.7	13.5	14.6	25.7	19.8	18.3	10.7	184.5
31	Красносельск . . . . .	18-24	5.4	5.3	13.1	19.7	8.3	3.3	3.3	2.5	12.0	18.5	22.6	8.9	122.9
		24-6	4.1	5.3	12.6	21.7	10.4	4.7	4.3	3.0	12.6	48.0	21.3	5.5	123.5
		6-12	3.3	3.4	9.1	12.4	4.5	2.4	4.0	3.0	7.5	9.9	13.8	4.2	77.5
		12-18	2.6	2.6	6.7	12.4	6.8	2.5	4.0	2.3	6.9	7.3	12.8	6.1	73.0
33	Севан, ГМС . . . . .	18-24	17.6	12.5	6.3	0.7	0.2	0.01		0.01		0.1	3.4	17.6	58.4
		24-6	19.0	15.9	11.8	3.4	0.3	0.04			0.1	0.1	6.0	17.2	73.8
		6-12	23.0	19.7	13.0	1.9	0.7	0.1	0.01		0.1	0.8	8.2	17.4	84.9
		12-18	13.6	10.4	6.6	0.4				0.05		0.2	3.4	13.0	47.7

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.

(5). Kalinino. (17). Dzhadzhur, railroad. (19). Idzhevan. (22).

Kirovakan. (23). Leninakan. (26). Semenovka. (31). Krasnosel'sk.

(33). Sevan, GMS.

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## Continuation of Table 3a.

(a) Станция	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
35	Раздан . . . . .	18-24	11.8	5.7	3.2		0.01					0.4	1.5	14.5	37.1
		24-6	10.9	6.6	4.3	0.3						0.3	3.3	14.5	40.2
		6-12	15.3	9.5	5.1	0.6	0.1				0.04	0.5	6.1	17.0	54.2
		12-18	13.2	5.3	2.6	0.2						0.4	1.6	13.4	36.7
43	Камо . . . . .	18-24	6.2	5.4	8.7	3.0	0.3					0.2	4.6	2.7	31.1
		24-6	4.6	4.8	9.2	3.0	0.1				0.2	0.2	4.4	3.6	30.1
		6-12	9.5	8.0	11.8	3.8	0.5	0.1		0.1	0.1	0.8	5.3	5.2	45.2
		12-18	8.9	5.8	10.5	2.6	0.5				0.1	0.8	4.9	4.1	38.2
55	Октемберян . . . . .	18-24	3.9	1.0	0.1								0.4	2.4	7.8
		24-6	6.4	2.8	0.6	0.2					0.01	1.2	3.5	14.7	
		6-12	10.5	5.5	1.6	0.1					0.6	1.8	8.9	29.0	
		12-18	3.9	0.8								0.03	1.9	6.6	
56	Ереван . . . . .	18-24	15.0	5.0	0.9							0.3	1.2	7.0	29.4
		24-6	21.7	8.3	2.4	0.4	0.02	0.2			0.04	0.9	3.5	9.8	47.2
		6-12	41.3	20.6	5.5	0.3	0.2	0.4			0.04	2.2	8.4	26.5	105.5
		12-18	14.8	5.6	1.1			0.02				0.3	1.3	8.0	31.1
59	Яных . . . . .	18-24	0.7	0.7	0.9	1.3	0.5	0.5	0.04		0.2	0.2	0.5	0.9	6.4
		24-6	0.5	0.5	0.9	2.3	1.1	0.6	0.8	0.4	1.0	1.0	0.1	1.2	10.4
		6-12	1.8	1.1	1.8	1.7	1.2	0.8	1.0	0.6	1.7	1.1	1.3	1.9	16.0
		12-18	1.2	0.4	1.0	0.4	0.1	0.1			0.1	0.3	0.9	1.2	5.7
72, 72a	Горис I, II . . . . .	18-24	20.8	26.6	44.3	26.5	9.5	3.1	1.0	2.0	16.3	26.5	37.4	23.7	237.7
		24-6	17.6	22.6	42.2	28.5	10.1	3.8	0.7	1.8	17.7	26.5	32.5	20.0	224.0
		6-12	16.4	18.0	34.9	31.3	10.8	4.9	2.5	4.2	19.3	22.5	26.5	17.8	208.9
		12-18	12.7	15.8	25.4	21.1	6.6	2.9	1.3	1.8	11.5	15.2	22.6	14.9	151.8
74	Кафан . . . . .	18-24	1.9	0.9	1.3	0.4	0.04				0.2	0.02	0.01	0.9	6.9
		24-6	3.1	1.7	3.1	0.4	0.3				0.3	0.5	0.4	1.8	13.0
		6-12	4.2	2.2	3.2	0.4	0.6				0.2	0.5	0.6	1.9	16.5
		12-18	0.7	0.4	0.4	0.4	0.03				0.01	0.04	0.2	0.7	2.9

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.

(35). Razdan. (43). Kama. (55). Oktemberyan. (56). Yerevan.

(59). Yanykh. (72-72a). Goris I, II. (74). Kafan.

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SECTION 3. SNOW STORMS.

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TABLE 1.

AVERAGE NUMBER OF DAYS WITH A SNOW STORM.

(a) № станции	(b) Станция	X	XI	XII	I	II	III	IV	V	(c) Год
2	Шахназар . . . . .	0.04	0.4	1	3	2	1	0.3		8
4	Шнох . . . . .				0.07	0.2	0.1	0.03		0.4
5	Калинино . . . . .		0.3	0.9	3	2	1	0.2		7
6	Шурабад . . . . .		1	4	7	7	5	0.7		25
8	Гукасян Верин . . . . .	0.5	2	2	5	7	7	1	0.1	25
11	Степанаван . . . . .			0.04	1	0.6	0.2			2
13	Амасия . . . . .	0.2	1	3	5	6	6	2		23
17	Джаджур, ж. д. . . . .	0.2	1	2	4	4	5	1		17
18	Лусахпюр . . . . .	0.1	0.5	2	4	4	3	0.5		14
20	Спитак . . . . .		0.1	0.6	2	1	0.9	0.09		5
22	Кировакан . . . . .			0.07	0.1	0.07	0.03	0.03		0.3
23	Ленинакан . . . . .		0.3	0.7	2	2	2	0.2		7
24	Лермонтово . . . . .		0.2	1	4	2	2	0.2		9
25	Дилижан . . . . .				0.1	0.07	0.03			0.2
26	Семеновка . . . . .		0.7	2	4	5	3	0.3	0.01	15
29	Артик . . . . .		0.3	2	3	3	3	0.2		12
30	Апаран . . . . .	0.07	0.7	1	5	4	3	0.4		14
31	Красносельск . . . . .		0.2	1	2	2	1			6
32	Севан, озерная ГМО . . . . .	0.04	1	2	4	5	4	1		17
33	Севан, ГМС . . . . .	0.04	2	4	6	7	6	0.7		26
34	Гарновит . . . . .		0.9	2	3	4	3	0.4		13
35	Раздан . . . . .		0.3	0.6	2	1	0.7	0.1		5
36	Шоржа . . . . .	0.07	0.4	0.8	2	1	2	0.2		6
37	Арагац, высокогорная <sup>1</sup> . . . . .	4	7	10	13	12	13	7	4	72
38	Арагац (Казнафар) . . . . .	0.04	0.2	1	5	4	2	0.2		12
39	Фонтан . . . . .		0.6	0.9	3	2	2	0.3		9
40	Талин Верин . . . . .	0.03	0.4	0.6	2	1	1	0.3	0.03	5
42	Кошабулах . . . . .		0.4	0.9	2	2	2	0.6	0.03	8
43	Камо . . . . .		0.9	1	3	2	2	0.4		9
44	Арагац, ж. д. . . . .	0.04	0.1	0.4	1	1	1	0.3		4
45	Егвард . . . . .		0.1	0.3	0.7	0.9	1	0.03		3
47	Ератумбер <sup>2</sup> . . . . .	4	9	10	12	13	13	9	2	73
50	Мазра . . . . .		0.7	1	3	2	2	0.7		9
54	Эчмиадзин . . . . .		0.04	0.05	0.2	0.04	0.2			0.5
55	Октемберян . . . . .			0.03	0.2		0.1			0.3
56	Ереван . . . . .				0.2	0.3	0.1			0.6
57	Мартуни I . . . . .		0.2	2	5	3	2	0.2		12
57a	Мартуни II . . . . .	—	—	—	—	—	—	—	—	20
58	Гарни . . . . .			0.07	0.6	0.6	0.3			2
59	Яных . . . . .	0.07	2	4	7	7	6	1	0.1	27
60	Арташат . . . . .		0.07	0.1	0.3	0.3	0.5	0.03		1
62	Джермук . . . . .		0.9	2	3	3	4	1	0.6	14
64	Ехегнадзор . . . . .			0.1	0.3	0.2	0.3			0.9
68	Базарчай . . . . .		0.07	1	2	1	2	0.6		7
69	Мартирос . . . . .	0.04	0.7	3	5	5	3	0.5		17
70	Сисианский перевал . . . . .	0.6	4	8	9	12	12	6	1	53
71	Сисиан . . . . .	0.04	0.3	0.8	2	2	1	0.2		6
72, 72a	Горис I, II . . . . .		0.04	0.3	1	0.7	0.4	0.04		2
76	Шванидзор . . . . .					0.1	0.07			0.2
77	Мерги . . . . .				0.1	0.01	0.01			0.1

Key: (a). Station number. (b). Station. (c). Year. (2).  
Shakhnazar. (4). Shnokh. (5). Kalinino. (6). Shurabad. (8).  
Gukasyan Verin. (11). Stepanavan. (13). Amasiya. (17).  
Dzhadzhur, railroad. (18). Lusakhpyur. (20). Spitak. (22).  
Kirovakan. (23). Leninakan. (24). Lermontov. (25). Dilizhan.  
(26). Semenovka. (29). Artik. (30). Aparan. (31). Krasnosel'sk.  
(32). Lake Sevan GMO. (33). Sevan, GMS. (34). Garnovit. (35).  
Razdan. (36). Shorzha. (37). Aragats, high-mountain. (38).  
Aragats (Kaznafar). (39). Fontan. (40). Talin Verin. (42).  
Koshabulakh. (43). Kama. (44). Aragats, railroad. (45). Yegvard.  
(47). Yeratumber. (50). Mazra. (54). Echmiadzin. (55).  
Oktemberyan. (56). Yerevan. (57). Martuni I. (57a). Martuni II.  
(58). Garni. (59). Yanykh. (60). Artashat. (62). Dzhermuk.  
(64). Yekhegnadzor. (68). Bazarchay. (69). Martiros. (70).  
Sisian pass. (71). Sisian. (72-72a). Goris I, II. <sup>(76). Shvanidzor</sup> (77). Megri.

FOOTNOTE <sup>1</sup>. At the Aragats, high-mountain station during September  
0.5 days, during June 1 day with a snow storm.

<sup>2</sup>. At the Yeratumber station during September 0.2 days, during June 1  
day with a snow storm. ENDFOOTNOTE.

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TABLE 1a.

## GREATEST NUMBER OF DAYS WITH A SNOW STORM.

(a) № станции	(b) Станция	X	XI	XII	I	II	III	IV	V	(c) Год
2	Шахназар . . . . .	1	3	5	9	8	6	3		16
4	Шнох . . . . .				1	5	1	1		5
5	Калинино . . . . .		4	5	17	8	6	3		30
6	Шурабад . . . . .		5	12	18	17	12	4		45
11	Степанаван . . . . .			3	5	2	2			10
13	Амасия . . . . .	2	5	8	11	12	15	6		31
17	Джаджур, ж. д. . . . .	1	5	5	11	11	12	6		38
18	Лусахпюр . . . . .	1	2	10	8	14	12	7		33
20	Спитак . . . . .		2	3	8	6	4	1		17
22	Кировакан . . . . .			2	2	1	1	1		3
23	Ленинакан . . . . .	1	4	3	6	6	6	1		15
24	Лермонтово . . . . .		2	6	12	6	6	2		22
25	Дилижан . . . . .				2	1	1			3
26	Семеновка . . . . .		5	7	12	10	10	3	1	25
30	Апаран . . . . .	2	4	6	11	10	11	2		30
31	Красносельск . . . . .		1	5	9	7	4			14
32	Севан, озерная ГМО . . . . .	1	7	9	17	11	13	5		37
33	Севан, ГМС . . . . .	1	8	15	14	16	13	5		50
35	Раздан . . . . .		4	5	5	5	4	2		14
36	Шоржа . . . . .	1	4	4	7	4	8	2		14
37	Арагац, высокогорная <sup>1</sup> . . . . .	15	17	21	26	22	25	19	12	122
38	Арагац (Казнафар) . . . . .	1	2	5	16	15	11	3		27
39	Фонтан . . . . .		4	3	10	7	7	2		22
40	Талин Верин . . . . .	1	4	3	8	4	4	2	1	12
42	Кошабулах . . . . .		5	4	7	6	8	4	1	21
43	Камо . . . . .		7	5	10	7	5	1		24
44	Арагац, ж. д. . . . .	1	1	3	3	3	5	3		10
45	Егвард . . . . .		2	3	3	4	6	1		12
50	Мазра . . . . .		4	5	13	7	8	3		24
54	Эчмиадзин . . . . .		1	1	3	1	2			3
55	Октемберян . . . . .			1	1		2			2
56	Ереван . . . . .				1	4	1			4
57	Мартуни I . . . . .		3	10	18	7	7	2		30
59	Яных . . . . .	1	8	11	16	16	19	10	3	40
60	Арташат . . . . .		1	1	2	2	3	1		5
62	Джермук . . . . .		4	9	10	8	11	6	1	26
64	Ехегнадзор . . . . .			2	2	1	2			3
68	Базарчай . . . . .		1	6	10	4	5	4		19
69	Мартирос . . . . .	1	4	13	15	14	8	2		38
71	Сисиан . . . . .	1	3	3	8	6	5	2		12
72, 72a	Горис I, II . . . . .		1	3	7	5	10	1		17
76	Шванидзор . . . . .					1	1			1

Key: (a). Station number. (b). Station. (c). Year. (2).  
Shakhnazar. (4). Shnokh. (5). Kalinino. (6). Shurabad. (11).  
Stepanavan. (13). Amasiya. (17). Dzhadzhur, railroad. (18).  
Lusakhyur. (20). Spitak. (22). Kirovakan. (23). Leninakan.  
(24). Lermontov. (25). Dilizhan. (26). Semenovka. (30). Aparan.  
(31). Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS.  
(35). Razdan. (36). Shorzha. (37). Aragats, high-mountain. (38).  
Aragats (Kaznafar). (39). Fontan. (40). Talin Verin. (42).  
Koshabulakh. (43). Kama. (44). Aragats, railroad. (45). Yegvard.  
(50). Mazra. (54). Echmiadzin. (55). Oktemberyan. (56).  
Yerevan. (57). Martuni I. (59). Yanykh. (60). Artashat. (62).  
Dzhermuk. (64). Yekhegnadzor. (68). Bazarchay. (69). Martiros.  
(71). Sisian. (72-72a). Goris I, II. (76). Shvanidzor.

FOOTNOTE <sup>1</sup>. At the Aragats, high-mountain station during September 7 days, during June 4 days with a snow storm. ENDFOOTNOTE.



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TABLE 2.

## AVERAGE NUMBER OF DAYS WITH DRIFTING SNOW.

(a) № станции	(b) Станция	X	XI	XII	I	II	III	IV	(c) Год
5	Калининно . . . . .		0.3	0.9	1	1	1	0.04	4
8	Гукасян Верин . .			1	2	3	1	0.6	8
11	Степанаван . . .		0.4	0.7	2	1	0.7	0.04	5
13	Амасия . . . . .		0.5	1	3	4	3	0.2	12
17	Джаджур, ж. д.	0.04	0.4	0.9	2	2	0.7	0.1	6
20	Спитак . . . . .			0.4	0.7	0.1	0.3		2
22	Кировакан . . .			0.1	0.4	0.1			0.6
23	Ленинакан . . .		0.04	0.5	1	1	1		4
24	Лермонтово . . .	0.06	0.2	1	3	2	1	0.3	8
26	Семеновка . . .	0.1	0.6	1	3	2	2	0.3	9
30	Апаран . . . . .	0.03	0.2	1	2	3	2	0.3	8
31	Красносельск . .	0.04	1	3	5	4	3	0.6	17
32	Севан, озерная ГМО . . . . .		0.5	1	3	3	3	0.2	11
33	Севан, ГМС . . .		0.4	2	3	2	2	0.4	10
34	Гарновит . . . .	0.06	1	4	5	6	4	0.3	20
35	Раздан . . . . .		0.2	1	3	4	2	0.1	10
37	Арагац, высоко- горная <sup>1</sup> . . . . .	3	5	8	7	7	8	6	49
43	Камо . . . . .		0.2	0.6	1	1	0.8		4
44	Арагац, ж. д. . .		0.04	0.3	1	0.9	0.4		3
45	Егвард . . . . .		0.04	0.1	0.3	0.3	0.1		0.8
47	Ератумбер <sup>2</sup> . . .	3	5	5	6	7	6	2	36
50	Мазра . . . . .		0.5	2	3	4	2	0.2	12
56	Ереван . . . . .	—	—	—	—	—	—	—	0.06
57	Мартуни I . . .		0.05	1	2	0.9	0.8	0.1	5
59	Яных . . . . .		0.6	1	2	2	2	0.2	8
60	Арташат . . . .	—	—	—	—	—	—	—	0.3
64	Ехегнадзор . . .	—	—	—	—	—	—	—	0.1
68	Базарчай . . . .		0.07	0.4	2	2	0.8	0.1	5
69	Мартирос . . . .			0.07	0.4	0.3	0.2		1
70	Сисианский перевал	0.2	0.9	3	3	3	2	0.6	13
71	Сисиан . . . . .		0.04	0.3	0.7	0.8	0.2	0.04	2
73	Хотанан Верин . .			0.06	0.7	1	0.8	0.2	3

Key: (a). Station number. (b). Station. (c). Year. (5).  
Kalinino. (8). Gukasyan Verin. (11). Stepanavan. (13). Amasiya.  
(17). Dzhadzhur, railroad. (20). Spitak. (22). Kirovakan. (23).  
Leninakan. (24). Lermontov. (26). Semenovka. (30). Aparan.  
(31). Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS.  
(34). Garnovit. (35). Razdan. (37). Aragats, high-mountain.  
(43). Kama. (44). Aragats, railroad. (45). Yegvard. (47).  
Yeratumber. (50). Mazra. (56). Yerevan. (57). Martuni I. (59).  
Yanykh. (60). Artashat. (64). Yekhegnadzor. (68). Bazarchay.  
(69). Martiros. (70). Sisian pass. (71). Sisian. (73). Khotanan  
Verin.

FOOTNOTE <sup>1</sup>. At the Aragats, high-mountain station during September  
0.2 days, during May 4 days, during June 0.6 days with drifting snow.

<sup>2</sup>. At the Yeratumber station during September 0.1 days, during May 2  
days, during June 0.1 days with drifting snow. ENDFOOTNOTE.

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TABLE 3.

## DURATION OF SNOW STORMS (HOURS).

(a) № станции	(b) Станция	X	XI	XII	I	II	III	IV	V	(c) Год	(d) Продолжи- тельность метель в день с ме- телью. Год
5	Калинино . . . . .		1	6	23	14	7	0.8		52	6.5
17	Джаджур, ж. д. . . . .	1	6	13	38	38	51	7		154	8.1
20	Спитак . . . . .		0.7	3	6	7	4	0.2		21	4.2
23	Ленинакан . . . . .	0.03	2	3	11	8	11	0.6		36	5.1
30	Апаран . . . . .		2	5	34	17	19	3		80	5.7
31	Красносельск . . . . .		0.2	6	15	12	3			36	4.0
32	Севан, озерная ГМО . . . . .		5	6	15	14	11	3		54	2.7
33	Севан, ГМС . . . . .	0.4	9	25	42	51	44	3		174	6.5
35	Раздан . . . . .		1	2	7	6	4	0.7		21	4.2
36	Шоржа . . . . .	0.5	2	1	5	0.7	4	0.4		14	2.3
40	Талин Верин . . . . .		0.8	2	9	4	3	0.2		19	3.1
43	Камо . . . . .		5	6	22	9	10	0.6		53	5.9
44	Арагац, ж. д. . . . .	0.2	0.2	1	7	6	7	4		25	6.2
57	Мартуни I . . . . .		2	12	44	17	17	0.9		93	7.8
59	Яных . . . . .	0.7	13	32	63	54	42	4	0.8	210	7.8
71	Сисиан . . . . .	2	3	4	8	8	8	0.7		34	5.7

Key: (a). Station number. (b). Station. (c). Year. (d).

Duration of snow storm during a day with a snow storm. Year. (5).

Kalinino. (17). Dzhadzhur, railroad. (20). Spitak. (23).

Leninakan. (30). Aparan. (31). Krasnosel'sk. (32). Lake Sevan

GMO. (33). Sevan, GMS. (35). Razdan. (36). Shorzha. (40).

Talin Verin. (43). Kama. (44). Aragats, railroad. (57). Martuni

I. (59). Yanykh. (71). Sisian.

TABLE 4.

FREQUENCY OF DIFFERENT WIND DIRECTIONS DURING SNOW STORMS (%).

(a) № станции	(b) Станция	С	СВ	В	ЮВ	Ю	ЮЗ	З	СЗ
6	Шурабад . . . .	28	3	2	5	22	20	8	12
23	Ленинакан . . . .	61	16	7		3	5	2	6
33	Севан, ГМС . . . .	11	8	0.3	0.4	0.4	17	53	10
36	Шоржа . . . .	21	41	2	2	4	4	10	16
37	Арагац, высоко- горная . . . .	9	2	1	0.9	2	8	43	34
55	Октемберян . . . .		20		20		20	40	
56	Ереван . . . .		75				25		
59	Яных . . . .	10	2	0.2	15	70	2	0.5	0.1

Key: (a). Station number. (b). Station. (6). Shurabad. (23). Leninakan. (33). Sevan, GMS. (36). Shorzha. (37). Aragats, high-mountain. (55). Oktembryan. (56). Yerevan. (59). Yanykh.

TABLE 5.

FREQUENCY OF DIFFERENT WIND SPEEDS DURING SNOW STORMS (%).

(a) № станции	(b) Станция	(c) Скорость (м/сек)					
		< 6	6—9	10—13	14—17	18—20	> 20
6	Шурабад . . . .	23.4	45.2	17.2	9.3	4.4	0.5
23	Ленинакан . . . .	11.8	33.7	21.0	25.6	7.5	0.4
33	Севан, ГМС . . . .	7.0	48.7	16.8	20.6	6.9	
36	Шоржа . . . . .	18.4	57.8	16.3	4.8	2.7	
37	Арагац, высоко- горная . . . . .	8.2	50.7	26.4	10.1	2.8	1.8
55	Октемберян . . . .	81.8	9.1	9.1			
56	Ереван . . . . .	25.0	25.0	25.0	25.0		
59	Яных . . . . .	4.4	40.6	18.9	31.8	4.2	0.1

Key: (a). Station number. (b). Station. (c). Speed (m/s). (6). Shurabad. (23). Leninakan. (33). Sevan, GMS. (36). Shorzha. (37). Aragats, high-mountain. (55). Oktemberyan. (56). Yerevan. (59). Yanykh.

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TABLE 6.

FREQUENCY OF AIR TEMPERATURES WITHIN DIFFERENT LIMITS DURING SNOW STORMS (%).

(a) Температура													(d)
(b) от	(c) до	IX	X	XI	XII	I	II	III	IV	V	VI	VII	Год
6. Шурабад													
<-30.0													0.2
-29.9	-25.0				0.6			0.5					
-24.9	-20.0					1	0.5	0.6					0.6
-19.9	-15.0			2	2		4	6	3				4
-14.9	-10.0			18	21		27	33	20				26
-9.9	-5.0			46	44		43	39	46	24			42
-4.9	0.0			30	31		24	21	25	73			25
>0.0				4	2		0.7		5	3			2
23. Леникан													
<-30.0													0.4
-29.9	-25.0												
-24.9	-20.0												
-19.9	-15.0			14			17	14	6				11
-14.9	-10.0			14			58	55	53	54			54
-9.9	-5.0			57			42	26	31	30			32
-4.9	0.0	100								67			3
>0.0				15			2	2	1	33			
33. Севан, ГМС													
<-30.0													0.2
-29.9	-25.0												
-24.9	-20.0						0.7						2
-19.9	-15.0					1	3	4	0.4				2
-14.9	-10.0			11	15	20	23	13					18
-9.9	-5.0	100		30	39	47	31	44		60			40
-4.9	0.0			57	41	29	39	42		36	25		38
>0.0				2	4	1	2	0.4		4	75		2
36. Шоржа													
<-30.0													2
-29.9	-25.0												
-24.9	-20.0						7						14
-19.9	-15.0												
-14.9	-10.0			6			16	31	6				54
-9.9	-5.0	100		47		47	48	47	73		67		29
-4.9	0.0			47		42	29	22	21		33		1
>0.0						11							
37. Арагац, высокогорная													
<-30.0													0.4
-29.9	-25.0						0.1	1	0.4	0.1			4
-24.9	-20.0				0.9		4	6	7	3			
-19.9	-15.0				7		14	19	20	13	4	0.5	13
-14.9	-10.0		12	25	39	52	46			40	19	3	37
-9.9	-5.0	31	36	40	37	22	26			38	43	24	32
-4.9	0.0	61	51	27	6	0.4	0.8			6	33	67	13
>0.0		8	1	0.2						0.1	0.7	6	100

Key: (a). Temperature. (b). from. (c). to. (d). Year. (6).  
Shurabad. (23). Leninakan. (33). Sevan, GMS. (36). Shorzha.  
(37). Aragats, high-mountain.

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Continuation of Table 6.

(a) Температура													(d)
(b) от	(c) до	IX	X	XI	XII	I	II	III	IV	V	VI	VII	Год

## 55. Октемберян

< -30.0													
-29.9	-25.0												
-24.9	-20.0					25							25
-19.9	-15.0												
-14.9	-10.0												
-9.9	-5.0												
-4.9	0.0					50							50
> 0.0						25							25

## 56. Ереван

< -30.0													
-29.9	-25.0												
-24.9	-20.0												
-19.9	-15.0												
-14.9	-10.0												
-9.9	-5.0												
-4.9	0.0					100	100						100
> 0.0													

## 59. Яных

< -30.0													
-29.9	-25.0												
-24.9	-20.0												
-19.9	-15.0		1	1		4	3	0.8					2
-14.9	-10.0		4	11		16	15	16	3				14
-9.9	-5.0		36	36		48	38	43	30				41
-4.9	0.0	100	51	48		32	43	37	53	100			40
> 0.0			8	4		0.3	1	3	14				3

Key: (a). Temperature. (b). from. (c). to. (d). Year. (55).  
 Oktemberyan. (56). Yerevan. (59). Yanykh.



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TABLE 7.

FREQUENCY OF DIFFERENT NUMBER OF DAYS WITH A SNOW STORM IN A YEAR (%).

(a) Число дней	Повторяемость (b) (%)	Число дней (a)	Повторяемость (b) (%)	Число дней (a)	Повторяемость (b) (%)
<b>2. Шахназар</b>		<b>31. Красносельск</b>		<b>40. Талин Верин</b>	
0		1-5	37	1-5	52
1-5	40	6-10	46	6-10	44
6-10	35	11-15	17	11-15	4
11-15	15				
16-20	10	<b>32. Севан, озерная ГМО</b>		<b>42. Кошабулах</b>	
<b>5. Калинин</b>		1-5	9	0	3
1-5	42	6-10	26	1-5	35
6-10	45	11-15	9	6-10	42
11-15	4	16-20	17	11-15	11
16-20	3	21-25	22	16-20	6
21-25	3	26-30		21-25	3
26-30	3	31-35	13	<b>43. Камо</b>	
<b>13. Амасия</b>		36-40	4	1-5	21
11-15	8	<b>33. Севан, ГМС</b>		6-10	48
16-20	23	11-15	12	11-15	17
21-25	35	16-20	15	16-20	7
26-30	26	21-25	15	21-25	7
31-35	8	26-30	30	<b>44. Арагац, ж. д.</b>	
<b>17. Джаджур, ж. д.</b>		31-35	12	0	8
6-10	15	36-40	12	1-5	67
11-15	30	41-45		6-10	25
16-20	22	46-50	4	<b>45. Егвард</b>	
21-25	19	<b>35. Раздан</b>		0	14
26-30	7	0	11	1-5	72
31-35		1-5	49	6-10	7
36-40	7	6-10	36	11-15	7
<b>20. Спитак</b>		11-15	4	<b>50. Мазра</b>	
0	7	<b>36. Шоржа</b>		1-5	29
1-5	74	1-5	42	6-10	42
6-10	11	6-10	52	11-15	17
11-15	4	11-15	6	16-20	
16-20	4	<b>37. Арагац, высокогорная</b>		21-25	12
<b>23. Ленинанкан</b>		31-40	10	<b>56. Ереван</b>	
0	3	41-50	11	0	76
1-5	38	51-60	4	1-5	24
6-10	48	61-70	31	<b>57. Мартуни I</b>	
11-15	11	71-80	17	1-5	6
<b>26. Семеновка</b>		81-90	3	6-10	50
1-5	5	91-100	14	11-15	22
6-10	26	101-110	4	16-20	11
11-15	33	111-120	3	21-25	
16-20	10	121-130	3	26-30	11
21-25	26	<b>39. Фонтан</b>		<b>59. Яных</b>	
<b>30. Апаран</b>		1-5	25	11-15	14
6-10	31	6-10	35	16-20	14
11-15	27	11-15	25	21-25	14
16-20	38	16-20	5	26-30	10
21-25		21-25	10	31-35	34
26-30	4			36-40	14

Key: (a). Number of days. (b). Frequency (%). (2). Shakhnazar.  
(5). Kalinino. (13). Amasiya. (17). Dzhadzhur, railroad. (20).  
Spitak. (23). Leninakan. (26). Semenovka. (30). Aparan. (31).  
Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS. (35).  
Razdan. (36). Shorzha. (37). Aragats, high-mountain. (39).  
Fontan. (40). Talin Verin. (42). Koshabulakh. (43). Kama. (44).  
Aragats, railroad. (45). Yegvard. (50). Mazra. (56). Yerevan.  
(57). Martuni I. (59). Yanykh.

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Continuation of Table 7.

(a) Число дней	Повторяемость (b) (%)	Число дней	Повторяемость (%) (b)	Число дней	Повторяемость (%) (b)
60. Арташат		68. Базарчай		71. Сисиан	
0	28	0	9	1-5	44
1-5	72	1-5	50	6-10	48
62. Джермук		6-10	27	11-15	8
1-5	6	11-15		72. Горис I	
6-10	6	16-20	14	0	42
11-15	44	69. Мартирос		1-5	37
16-20	22	6-10	11	6-10	17
21-25	16	11-15	30	11-15	
26-30	6	16-20	26	16-20	4
64. Екегнадзор		21-25	15		
0	46	26-30	15		
1-5	54	31-35			
		36-40	3		

Key: (a). Number of days. (b). Frequency (%). (60). Artashat.  
 (62). Dzhermuk. (64). Yekhegnadzor. (68). Bazarchay. (69).  
 Martiros. (71). Sisian. (72). Goris I.

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SECTION 4. THUNDERSTORMS.

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TABLE 1.

## AVERAGE NUMBER OF DAYS WITH A THUNDERSTORM.

(a) № станции	(b) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
1	Дебедашен (Ламбалу)		0.07	0.2	3	7	7	6	5	3	2	0.07		33
2	Шахназар			0.2	4	13	14	9	8	5	2	0.1	0.04	55
3	Кохб		0.1	0.2	3	9	10	4	4	3	2	0.1		35
4	Шнох	0.03	0.07	0.3	4	13	14	8	7	6	3	0.2		56
5	Калинино			0.2	4	15	18	10	10	7	3	0.1	0.03	67
6	Шурабад			0.2	3	12	14	9	9	6	3	0.1		56
7	Одзун (Узунлар)			0.3	4	13	16	8	7	6	3	0.2		58
8	Гукасян Верин		0.4	0.2	4	14	16	10	9	6	2	0.09	0.01	62
10	Севкар		0.06	0.7	4	12	15	7	5	4	2	0.1		50
11	Степанаван	0.05		0.3	4	16	18	10	9	6	3	0.3		67
13	Амасия		0.08	0.2	4	14	16	10	10	6	2	0.08		62
15	Узунтала		0.07	0.8	3	11	11	6	5	4	3	0.2		44
16, 16a	Берд I, II		0.3	0.5	3	11	12	6	5	4	2	0.1		44
17	Джаджур, ж. д.			0.1	4	13	15	8	8	5	2	0.2	0.04	55
19	Иджеван			0.2	3	11	11	6	4	4	2	0.2		41
20	Спитак		0.04	0.2	4	12	15	10	8	5	3	0.3	0.04	58
21	Айгедзор		0.1	0.3	2	13	13	7	5	3	2	0.07	0.07	46
22	Кировакан	0.04	0.04	0.2	4	15	17	10	9	6	3	0.4		65
23	Ленинакан			0.2	5	16	16	10	9	6	3	0.4	0.04	66
24	Лермонтово		0.03	0.3	3	13	17	10	9	6	3	0.3		62
25	Дилижан		0.04	0.3	2	13	16	10	8	7	2	0.1		58
26	Семеновка			0.2	3	12	14	9	7	7	2	0.06		54
28	Анкаван	0.1	0.1	0.5	3	12	15	10	9	6	2	0.3	0.02	58
29	Артик		0.05	0.3	4	12	14	8	8	6	2	0.2		54
30	Апаран	0.2	0.1	0.6	3	13	17	12	11	6	2	0.3		65
31	Красносельск		0.04	0.2	2	12	15	8	7	5	2	0.1	0.04	51
32	Севан, озерная ГМО			0.3	3	11	12	8	7	4	2	0.1		47
33	Севан, ГМС	0.07	0.1	0.5	3	14	15	10	9	6	3	0.2	0.04	61
34	Гарновит	0.04	0.09	0.3	4	13	15	9	8	5	2	0.1		56
35	Раздан	0.07	0.3	0.7	4	11	13	8	7	4	2	0.2		50
36	Шоржа		0.04	0.3	2	11	15	9	7	6	3	0.2		54
37	Арагац, высокогорная	0.07		0.3	4	12	14	11	9	4	2	0.3		57
39	Фонтан	0.1	0.4	1	4	12	14	8	6	4	2	0.4	0.03	52
40	Талин Верин	0.05	0.09	0.6	5	14	15	9	7	4	2	0.2		57

Key: (a). Station number. (b). Station. (c). Year. (1).

Debedashen (Lambalu). (2). Shakhnazar. (3). Kokhb. (4). Shnokh.

(5). Kalinino. (6). Shurabad. (7). Odzun (Uzunlar). (8).

Gukasyan Verin. (10). Sevkar. (11). Stepanavan. (13). Amasiya.

(15). Uzuntala. (16-16a). Berd I, II. (17). Dzhadzhur, railroad.

(19). Idzhevan. (20). Spitak. (21). Aygedzor. (22). Kirovakan.

(23). Leninakan. (24). Lermontov. (25). Dilizhan. (26).

Semenovka. (28). Ankavan. (29). Artik. (30). Aparan. (31).

Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS. (34).

Garnovit. (35). Razdan. (36). Shorzha. (37). Aragats,

high-mountain. (39). Fontan. (40). Talin Verin.

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## Continuation of Table 1.

42	Кошибулах	0.03	0.3	0.6	6	14	15	10	9	6	3	0.4	64
43	Камо		0.1	0.2	2	9	13	9	7	6	2	0.2	48
44	Арагац, ж. д.	0.04		0.3	5	14	14	8	6	4	2	0.07	53
45	Егвард	0.05	0.4	0.8	5	12	13	7	5	4	2	0.5	50
46	Аштарак		0.2	0.8	4	10	10	6	4	3	1	0.5	40
47	Ератумбер			0.6	3	11	14	9	6	1	1	0.2	46
48	Шамиран		0.1	0.7	4	11	11	6	5	2	2	0.4	42
50	Мазра	0.04		0.2	2	9	14	10	9	6	3	0.5	54
51	Ереван, ГМО	0.02	0.3	0.6	4	10	10	5	4	3	2	0.5	39
52	Ереван, агро		0.4	0.9	5	12	12	6	4	3	2	0.4	46
54	Эчмиадзин		0.2	0.5	4	11	10	6	4	2	1	0.1	39
55	Октемберян		0.1	0.4	3	11	11	5	4	2	1	0.09	38
56	Ереван		0.3	0.6	4	10	9	5	4	2	2	0.5	37
57, 57a	Мартуни I, II		0.07	0.3	2	9	12	9	8	5	2	0.2	48
58	Гарни	0.04	0.4	1	4	11	13	7	6	3	2	0.5	48
59	Яных		0.2	0.8	3	12	14	10	7	6	2	0.4	55
60	Арташат	0.03	0.2	0.3	3	11	10	5	3	2	1	0.4	36
61	Чиманкенд		0.2	1	4	11	13	7	5	2	2	0.5	46
62	Джермук		0.1	0.9	3	10	11	7	6	4	2	0.4	44
63	Арарат	0.03	0.3	0.7	4	11	11	6	5	3	2	0.5	44
64	Екегнадзор	0.09	0.2	1	5	12	12	7	5	4	2	0.6	49
67	Арени	0.07	0.2	0.6	4	10	10	6	4	3	2	0.5	40
68	Базарчай		0.2	0.3	3	10	11	5	5	4	2	0.4	42
69	Мартирос		0.1	0.2	7	12	12	6	4	3	2	0.6	45
70	Сисианский перевал		0.1	0.3	1	4	9	11	6	4	4	0.4	42
71	Сисиан	0.04	0.2	0.8	4	11	11	6	4	3	2	0.1	42
72, 72a	Горис I, II			0.5	2	9	8	4	2	2	1	0.04	28
73	Хотанан Верин		0.06	0.6	3	9	6	4	2	3	2		30
74	Кафан			0.2	2	9	6	3	2	2	1	0.1	25
77	Мегри	0.04		0.6	3	9	7	3	2	2	1	0.3	28

Key: (42). Koshabulakh. (43). Kama. (44). Aragats, railroad.  
 (45). Yegvard. (46). Ashtarak. (47). Yeratumber. (48).  
 Shamiran. (50). Mazra. (51). Yerevan, GMO. (52). Yerevan,  
 agricultural. (54). Echmiadzin. (55). Oktembryan. (56).  
 Yerevan. (57-57a). Martuni I, II. (58). Garni. (59). Yanykh.  
 (60). Artashat. (61). Chimankend. (62). Dzhermuk. (63). Ararat.  
 (64). Yekhegnadzor. (67). Areni. (68). Bazarchay. (69).  
 Martiros. (70). Sisian pass. (71). Sisian. (72-72a). Goris I,  
 II. (73). Khotanan Verin. (74). Kafan. (77). Megri.

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TABLE 1a.

## GREATEST NUMBER OF DAYS WITH A THUNDERSTORM.

(a) № станции	(b) Станция	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
1	Лебедашен (Ламбалу)		1	1	7	10	15	13	10	9	4	1		47
2	Шахназар			3	11	21	22	13	17	15	7	1	1	74
3	Кохб		1	2	6	15	16	9	8	9	5	1		46
4	Шнок	1	1	3	11	19	22	18	14	16	7	2		73
5	Калинино			2	11	22	26	18	19	16	8	1	1	95
6	Шурабад			1	10	20	25	16	13	18	7	1		83
7	Одзун (Узунлар)			2	13	21	24	16	12	17	9	1		79
10	Севкар		1	4	10	17	22	10	10	10	6	1		62
11	Степанаван	1		2	10	20	24	19	15	16	7	1		82
13	Амасия		1	1	9	20	23	16	14	16	7	1		83
15	Узунтала		1	6	8	16	17	12	11	10	7	1		60
16, 16a	Берд I, II		1	3	9	17	20	12	12	9	7	1		63
17	Джаджур, ж. д.			1	7	18	20	12	13	10	8	2	1	82
19	Иджеван			1	9	17	23	12	10	8	5	1		65
20	Спитак		1	2	10	17	26	15	14	13	6	2	1	73
21	Айгедзор		1	2	8	17	18	10	10	9	4	1	1	56
22	Кировакан	1	1	1	10	21	21	16	15	18	8	2		88
23	Ленинакан			2	12	23	25	19	19	11	9	2	1	97
24	Лермонтово		1	2	9	21	24	17	17	13	6	2		88
25	Дилижан		1	2	8	19	23	18	13	19	6	2		76
26	Семеновка			2	7	19	23	14	12	14	5	1		68
29	Артик		1	2	10	18	22	14	14	20	4	1		70
30	Апаран	3		1	9	19	22	20	18	16	9	2		87
31	Красносельск		1	1	6	20	22	14	11	13	5	1	1	67
32	Севан, озерная ГМО			2	7	19	23	15	12	14	9	2		66
33	Севан, ГМС	1	2	2	10	19	23	15	16	15	8	1	1	84
34	Гарновит	1	1	2	12	18	20	20	14	11	6	1		73
35	Раздан	1	2	2	10	19	23	15	17	9	6	2		82
36	Шоржа		1	2	5	18	23	12	13	12	8	2		67
37	Арагатс, высокогорная	2		2	11	18	22	20	20	11	8	2		90
39	Фонтан	1	2	3	11	18	24	15	16	10	8	2	1	79
40	Талин Верин	1	1	3	12	22	22	19	15	9	7	1		80
42	Косибулах	1	2	3	13	21	21	20	23	11	10	2		101
43	Камо		1	1	7	15	23	16	16	11	7	2		67

Key: (a). Station number. (b). Station. (c). Year. (1).

Debedashen (Lambalu). (2). Shakhnazar. (3). Kokhb. (4). Shnokh.

(5). Kalinino. (6). Shurabad. (7). Odzun (Uzunlar). (10).

Sevkar. (11). Stepanavan. (13). Amasiya. (15). Uzuntala.

(16-16a). Berd I, II. (17). Dzhadzhur, railroad. (19). Idzhevan.

(20). Spitak. (21). Aygedzor. (22). Kirovakan. (23). Leninakan.

(24). Lermontov. (25). Dilizhan. (26). Semenovka. (29). Artik.

(30). Aparan. (31). Krasnosel'sk. (32). Lake Sevan GMO. (33).

Sevan, GMS. (34). Garnovit. (35). Razdan. (36). Shorzha. (37).

Aragats, high-mountain. (39). Fontan. (40). Talin Verin. (42).

Koshabulakh. (43). Kama.

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## Continuation of Table 1a.

44	Арагац, ж. д.	1		1	13	21	25	16	13	8	5	1	77
45	Егвард	1	3	2	12	20	20	18	10	10	7	2	65
46	Аштарак		1	2	9	16	17	12	13	10	5	2	68
47	Ератумбер			2	6	15	19	17	11	4	3	1	65
48	Шамиран		1	2	10	16	16	9	9	7	4	2	62
50	Мазра	1		2	6	17	21	20	16	12	9	3	74
52	Ереван, агро		3	5	12	19	19	14	11	10	8	2	66
54	Эчмиадзин		2	2	9	17	16	11	8	7	4	1	65
55	Октемберян		1	4	8	16	20	14	7	6	5	1	57
56	Ереван		2	3	11	19	18	14	13	9	7	3	58
57, 57a	Мартуни I, II		1	2	5	20	19	17	16	10	6	2	65
58	Гарни	1	2	4	9	20	20	13	9	9	8	2	60
59	Яных		2	4	10	21	21	18	16	11	8	3	81
60	Арташат	1	2	2	8	16	18	11	9	6	5	2	59
61	Чиманкенд		2	5	9	18	19	15	10	7	5	1	70
62	Джермук		1	3	8	14	17	12	11	7	6	2	62
64	Екегнадзор	1	1	4	12	19	24	15	11	12	6	5	71
68	Базарчай	1	3	4	11	17	21	13	13	11	5	2	68
69	Мартирос	1	1	3	9	18	21	13	11	11	6	2	66
70	Сисианский перевал	1	3	3	8	16	19	13	10	8	6	2	66
71	Сисиан	1	3	3	13	16	17	12	10	12	7	2	63
72, 72a	Горис I, II			3	7	14	17	12	6	9	4	1	49
73	Хотанан Верин		1	2	8	14	12	8	7	11	4		43
74	Кафан			2	8	13	12	8	6	11	4	3	42
77	Мегри	1		3	7	17	13	9	6	7	4	1	40

Key: (44). Aragats, railroad. (45). Yegvard. (46). Ashtarak.  
 (47). Yeratumber. (48). Shamiran. (50). Mazra. (52). Yerevan,  
 agricultural. (54). Echmiadzin. (55). Oktemberyan. (56).  
 Yerevan. (57-57a). Martuni I, II. (58). Garni. (59). Yanykh.  
 (60). Artashat. (61). Chimankend. (62). Dzhermuk. (64).  
 Yekhegnadzor. (68). Bazarchay. (69). Martiros. (70). Sisian  
 pass. (71). Sisian. (72-72a). Goris I, II. (73). Khotanan Verin.  
 (74). Kafan. (77). Megri.



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TABLE 2.

## AVERAGE DURATION OF THUNDERSTORMS (HOURS).

(a) #	(b) Станция													(c) Год	(d) Протяженность грозы в день с грозой. Год
		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII		
5	Калинино . . . . .			0.3	5.2	29.6	38.1	17.5	17.7	10.0	3.4	0.04		121.8	1.8
20	Спитак . . . . .		0.05	0.2	3.9	21.4	30.6	16.1	14.3	8.7	2.3	0.3		97.9	1.7
22	Кировакан . . . . .		0.02	0.05	4.5	28.3	42.2	18.6	18.7	10.4	3.6	0.2		126.6	1.9
23	Ленинакан . . . . .			0.1	9.5	34.6	42.3	23.3	18.1	10.9	4.6	0.2		143.6	2.2
25	Дилижан . . . . .			0.2	3.8	31.4	37.0	17.1	20.0	14.5	2.9	0.3		127.2	2.2
30	Апаран . . . . .	0.01	0.01	0.3	3.5	22.7	38.5	25.3	26.7	11.8	3.2	0.2		132.2	2.0
31	Красносельск . . . . .		0.01	0.2	1.7	15.5	23.7	11.8	10.1	6.3	2.0	0.5		71.4	1.4
33	Севан, ГМС . . . . .		0.01	0.2	4.1	25.0	32.1	19.3	19.8	9.9	3.5	0.2	0.05	114.2	1.9
43	Камо . . . . .		0.1	0.1	1.8	10.9	27.7	17.2	14.6	8.1	2.2	0.2		82.9	1.7
44	Арагац, ж. д. . . . .			0.1	6.2	25.2	28.4	14.9	9.0	6.9	1.7	0.04		92.4	1.7
50	Мазра . . . . .			0.04	1.5	17.4	32.5	21.4	22.2	11.9	4.0	0.5		111.4	2.1
56	Ереван . . . . .		0.2	0.2	3.1	11.5	13.9	7.5	5.3	2.6	1.8	0.4		46.5	1.3
60	Арташат . . . . .		0.3	0.2	1.5	10.2	10.6	4.2	3.4	1.5	0.9	0.2		33.0	0.9
64	Ехегнадзор . . . . .	0.02	0.1	1.1	8.4	29.4	32.5	16.7	14.5	9.7	5.0	1.1	0.2	118.7	2.4
72, 72a	Горис I, II . . . . .			0.3	4.1	16.3	14.1	6.0	4.6	3.6	1.3	0.01		50.3	1.8
77	Мегри . . . . .	0.04		0.4	3.6	11.7	8.9	3.8	3.1	2.1	1.2		0.03	34.9	1.1

Key: (a). Station number. (b). Station. (c). Year. (d).

Duration of thunderstorms during a day with a thunderstorm. Year.

(5). Kalinino. (20). Spitak. (22). Kirovakan. (23). Leninakan.  
 (25). Dilizhan. (30). Aparan. (31). Krasnosel'sk. (33). Sevan,  
 GMS. (43). Kama. (44). Aragats, railroad. (50). Mazra. (56).  
 Yerevan. (60). Artashat. (64). Yekhegnadzor. (72-72a). Goris I,  
 II. (77). Megri.

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TABLE 2a.

## DURATION OF THUNDERSTORMS AT DIFFERENT TIMES OF THE DAY (HOURS).

(a) Станция	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
5	Калинино	18-24			0.1	0.8	6.7	9.7	6.3	6.5	3.4	0.8	0.01		34.3
		24-6				0.2	0.4	2.1	1.2	1.7	0.7	0.1			6.4
		6-12				0.3	1.3	1.7	0.6	0.5	0.2	0.01			4.6
		12-18			0.2	3.9	21.2	24.6	9.4	9.0	5.7	2.5	0.03		76.5
22	Кировская	18-24				0.8	5.7	10.9	6.4	6.7	3.5	1.1	0.02		35.1
		24-6				0.1	0.8	2.7	1.0	1.8	0.5	0.2			7.1
		6-12				0.2	2.2	4.0	0.7	0.6	0.6	0.04			8.3
		12-18		0.02	0.05	3.4	19.6	24.6	10.5	9.6	5.8	2.3	0.2		76.1
23	Ленинская	18-24			0.02	1.9	8.6	13.7	9.0	7.5	4.9	1.0	0.04		46.7
		24-6				0.6	1.5	2.6	1.8	0.7	0.4	0.1			7.7
		6-12				0.8	2.1	1.9	1.2	0.3	0.2	0.2			6.7
		12-18		0.1		6.2	22.4	24.1	11.3	9.6	5.4	3.3	0.2		82.6
25	Дилижан	18-24			0.1	1.1	7.8	11.3	7.0	6.8	5.0	0.9	0.1		40.1
		24-6				0.03	1.6	3.1	1.7	3.5	1.6	0.4			11.9
		6-12			0.05	0.1	2.1	2.3	0.8	0.9	0.5	0.1	0.1		7.0
		12-18			0.05	2.6	19.9	20.3	7.6	8.8	7.4	1.5	0.1		68.2
30	Апаран	18-24			0.2	0.9	4.3	9.0	6.6	7.1	3.4	0.8	0.1		32.4
		24-6				0.2	1.2	2.0	1.1	1.2	0.1	0.6			6.4
		6-12	0.01		0.02	0.2	2.0	4.9	1.9	1.6	0.9	0.2			11.7
		12-18		0.01	0.1	2.2	15.2	22.6	15.7	16.8	7.4	1.6	0.1		81.7
31	Красносельск	18-24			0.01	0.5	3.1	6.0	3.9	3.8	2.1	0.4			19.9
		24-6				0.01	0.4	1.5	0.7	1.1	0.6	0.2			4.5
		6-12				0.1	1.0	1.6	0.9	0.6	0.3	0.1			4.6
		12-18			0.1	1.1	11.0	14.6	6.3	4.6	3.3	1.3	0.05		32.4
33	Севан, ГМС	18-24		0.01	0.1	1.0	5.1	8.4	5.8	6.2	3.6	0.5			30.7
		24-6				0.1	1.5	2.5	1.8	2.1	0.4	0.3			8.7
		6-12				0.4	1.9	3.8	1.8	1.7	0.7	0.2	0.03		10.5
		12-18			0.1	2.6	16.5	17.4	9.9	9.8	5.2	2.5	0.2	0.05	64.2
44	Арагац, ж. д.	18-24			0.02	1.8	6.2	10.3	6.7	4.4	2.9	0.5			32.8
		24-6				0.2	0.5	1.1	1.0	0.6	0.3	0.1			3.8
		6-12				0.2	1.0	0.8	0.6	0.1	0.1	0.04			2.8
		12-18			0.1	4.0	17.5	16.2	6.6	3.9	3.6	1.1	0.04		53.0

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.

(5). Kalinino. (22). Kirovakan. (23). Leninakan. (25). Dilizhan. (30). Aparan. (31). Krasnosel'sk. (33). Sevan, GMS. (44). Aragats, railroad.

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Continuation of Table 2a.

(a) Станция	(b) Станция	(c) Часы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(d) Год
50	Мазра	18-24			0.02	0.5	3.9	6.6	4.9	5.4	2.7	1.6	0.3		25.9
		24-6			0.02		0.6	1.2	0.8	1.3	0.7	0.3	0.1		5.0
		6-12				0.02	1.7	4.2	2.3	2.0	1.2	0.3			11.7
		12-18				1.0	11.2	20.5	13.4	13.5	7.3	1.8	0.1		68.8
56	Ереван	18-24		0.01	0.1	1.3	5.2	8.6	4.6	3.5	2.0	1.0	0.4		26.7
		24-6				0.02	1.0	1.1	0.8	1.0	0.2	0.1	0.01		4.2
		6-12				0.3	0.2	0.1	0.3	0.2	0.01	0.02			1.1
		12-18		0.2	0.1	1.5	5.1	4.1	1.8	0.6	0.4	0.7	0.02		14.5
60	Арташат	18-24		0.1	0.1	0.2	3.2	4.8	1.8	2.1	0.9	0.3	0.1		13.6
		24-6				0.03	0.6	0.4	0.8	0.3	0.2	0.2			2.5
		6-12				0.02	0.2	0.2	0.1	0.1	0.01				0.8
		12-18		0.2	0.05	1.1	6.2	5.2	1.5	0.9	0.4	0.4	0.1		16.1
64	Екегнадзор	18-24		0.04	0.4	2.7	7.6	12.3	6.8	5.1	3.4	1.9	0.5		40.7
		24-6				0.3	1.0	1.8	0.5	1.7	0.7	0.6	0.2		6.8
		6-12	0.01			0.3	1.4	1.7	0.6	1.3	0.2	0.3	0.1		5.9
		12-18	0.01	0.04	0.7	5.1	19.4	16.7	8.8	6.4	5.4	2.2	0.3	0.2	65.3
72	Горис I	18-24			0.1	1.3	7.0	6.5	3.2	2.0	1.5	0.6			22.2
		24-6				0.2	1.1	1.2	0.7	0.5	0.3				4.0
		6-12				0.2	0.7	0.9	0.5	0.5	0.2	0.03			3.0
		12-18			0.2	2.4	7.5	5.5	1.6	1.6	0.7	0.7	0.01		21.1
77	Мегри	18-24			0.05	1.0	5.6	3.7	2.0	1.0	0.8	0.6			14.8
		24-6			0.1	0.2	0.2	0.6	0.1	1.0	0.3	0.1			2.6
		6-12				0.2	0.3	0.5	0.2	0.1	0.1			0.01	1.4
		12-18	0.04		0.3	2.2	5.6	4.1	1.5	1.0	0.9	0.5		0.02	16.1

Key: (a). Station number. (b). Station. (c). Hours. (d). Year.  
 (50). Mazra. (56). Yerevan. (60). Artashat. (64). Yekhegnadzor.  
 (72). Goris I. (77). Megri.

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SECTION 5. DEG.

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TABLE 1.

## AVERAGE NUMBER OF DAYS WITH HAIL.

(a) № ст.	(b) Станция	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
1	Дебедашен (Ламбалу)			6.1	0.3	0.4	0.1	0.1	0.07	0.03			1.1
2	Шахназар			0.5	2.5	2.3	0.5	0.6	0.5	0.3	0.1		7.3
3	Кохб			0.08	0.4	0.4		0.2	0.04	0.08			1.2
4	Шнох			0.2	0.2	0.5	0.06	0.1	0.06	0.03			1.2
5	Калинино			0.9	2.8	2.8	0.7	0.9	0.5	0.2	0.1		8.9
6	Шурабад			0.2	2.0	1.9	1.0	1.0	0.4	0.2			6.7
7	Одзун (Узунлар)		0.03	0.2	1.1	1.3	0.3	0.3	0.2	0.2			3.6
9	Куйбышев			0.3	0.7	0.8	0.3	0.3	0.2	0.1			2.7
10	Севкар			0.06	0.2	0.3	0.06						0.6
11	Степанаван		0.03	0.3	1.7	2.2	0.4	0.4	0.4	0.2	0.06		5.7
12	Качаган			0.08	0.9	1.0	0.4	0.4	0.3	0.2			3.3
13	Амасия			0.2	0.9	1.4	0.2	0.4	0.3				3.4
14	Пушкино			0.1	1.2	1.3	0.3	0.3	0.3	0.08			3.6
15	Узунтала				0.3	0.6	0.07	0.07	0.07				1.1
16, 16a	Берд I, II			0.2	0.5	0.7	0.1		0.1	0.03			1.6
17	Джаджур, ж. д.			0.3	1.0	1.1	0.6	0.4	0.4	0.2			4.0
19	Иджеван	0.03	0.03	0.2	0.9	0.8	0.2	0.09	0.1				2.4
20	Спитак			0.4	0.8	1.3	0.4	0.3	0.2	0.03			3.4
22	Кировакан		0.05	0.7	2.2	2.4	0.7	0.5	0.5	0.4	0.02		7.5
23	Ленинакан		0.02	0.8	2.2	1.7	0.8	0.5	0.5	0.2	0.02	0.02	6.8
24	Лермонтово		0.06	0.3	1.5	2.1	0.6	0.7	0.4	0.3			6.0
25	Дилижан		0.05	0.3	1.8	2.3	0.4	0.5	0.4	0.3			6.0
26	Семеновка		0.02	0.2	1.3	1.5	0.6	0.6	0.4	0.3			4.9
29	Артик			0.5	1.2	1.1	0.4	0.2	0.4	0.1	0.08		4.0
30	Апаран			0.7	1.4	1.6	0.7	0.6	0.7	0.2			5.9
31	Красносельск		0.03	0.2	1.5	1.8	0.5	0.2	0.5	0.2			4.9
32	Севан, озерная ГМО		0.05	0.2	1.6	1.7	0.6	0.6	0.5	0.2	0.03		5.5
33	Севан, ГМС		0.03	0.3	1.5	1.8	0.6	0.6	0.5	0.3			5.6
34	Гарновит			0.04	0.03	0.5	0.2	0.2	0.2				1.2
35	Раздан		0.1	0.6	1.1	1.0	0.4	0.3	0.3	0.1			3.9
36	Шоржа			0.03	0.5	0.5	0.3	0.3	0.2	0.05		0.03	1.9
37	Арагат, высокогорная			0.08	0.7	2.4	2.5	2.6	0.6	0.2			9.1
39	Фонтан	0.06	0.08	0.6	1.3	0.9	0.3	0.08	0.1	0.08	0.02		3.5

Key: (a). Station number. (b). Station. (c). Year. (1).

Debedashen (Lambalu). (2). Shakhnazar. (3). Kokhb. (4). Shnokh.

(5). Kalinino. (6). Shurabad. (7). Odzun (Uzunlar). (9).

Kuybyshev. (10). Sevkar. (11). Stepanavan. (12). Kachagan.

(13). Amasiya. (14). Pushkin. (15). Uzuntala. (16-16a). Berd I,

II. (17). Dzhadzhur, railroad. (19). Idzhevan. (20). Spitak.

(22). Kirovakan. (23). Leninakan. (24). Lermontov. (25).

Dilizhan. (26). Semenovka. (29). Artik. (30). Aparan. (31).

Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan, GMS. (34).

Garnovit. (35). Razdan. (36). Shorzha. (37). Aragats,

high-mountain. (39). Fontan.

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## Continuation of Table 1.

40	Талин Верин			0.4	0.6	1.0	0.3	0.1	0.2					2.6
41	Базмаберд Верин		0.1	0.3	0.7	0.9	0.2	0.2	0.1	0.06	0.03			2.6
42	Кошабулах		0.03	0.8	1.7	1.5	0.3	0.3	0.4	0.3	0.1			5.4
43	Камо			0.2	0.4	0.9	0.4	0.4	0.4	0.1				2.8
44	Арагац, ж. д.		0.07	0.4	0.8	0.8	0.2	0.3	0.2					2.8
45	Егвард	0.03	0.08	0.5	0.8	0.5	0.03	0.03	0.06	0.06	0.06			2.2
46	Аштарак		0.1	0.3	0.5	0.4	0.07	0.05	0.02	0.02				1.5
47	Ератумбер	—	—	—	—	—	—	—	—	—	—			8.8
48	Шамиран		0.07	0.3	0.4	0.4				0.1				1.3
50	Мазра			0.07	1.3	1.2	0.6	0.8	0.4	0.4	0.1	0.07		4.9
52	Ереван, агро		0.07	0.5	0.4	0.4	0.04		0.04	0.04				1.5
54	Эчмиадзин		0.05	0.4	0.4	0.3	0.05	0.02		0.05	0.02			1.3
55	Октемберян	0.05	0.05	0.3	0.5	0.6	0.03	0.03	0.03	0.08				1.7
56	Ереван	0.03	0.2	0.7	0.7	0.4	0.1	0.05	0.08	0.08	0.03			2.4
57, 57a	Мартуни I, II		0.05	0.2	1.0	1.0	0.3	0.2	0.3	0.2	0.1			3.4
58	Гарин	0.08	0.08	0.4	0.8	0.4	0.03	0.08	0.03	0.03				1.9
59	Яных		0.03	0.3	1.4	1.5	0.2	0.2	0.5	0.2				4.3
60	Арташат <sup>1</sup>	0.1	0.05	0.5	0.7	0.4	0.08		0.03	0.08	0.05			2.0
61	Чиманкэнд		0.3	0.5	0.4	0.5	0.06	0.06	0.06	0.06	0.06	0.06		2.1
62	Джермук			1.3	2.8	2.2	0.7	0.7	0.9	0.7				9.4
63	Арарат		0.1	0.2	0.3	0.4	0.2		0.06		0.06			1.3
64	Екегнадзор	0.04	0.3	0.3	0.7	0.7	0.09	0.05	0.1	0.3				2.6
65	Гергер	0.04	0.1	0.7	1.7	1.2	0.3	0.2	0.08	0.2	0.08			4.6
66	Араздаян		0.09	0.04	0.04				0.05					0.2
67	Арени		0.06	0.06	0.06	0.2		0.06						0.4
68	Базарчай		0.06	0.7	1.7	1.1	0.5	0.4	0.5	0.3	0.07	0.03		5.4
69	Мартирос <sup>2</sup>	0.03	0.1	0.9	1.7	1.3	0.3	0.3	0.3	0.5	0.03	0.03		5.5
70	Сисианский перевал			0.8	2.0	1.9	0.9	0.07	0.5	0.4				6.6
71	Сисиан	0.04		0.6	1.1	0.8	0.1	0.1	0.2	0.2				3.1
72, 72a	Горис I, II		0.06	0.3	0.7	0.5	0.06	0.06	0.03	0.1				1.8
73	Хотанан Верин		0.06	0.2	0.7	0.3								1.3
74	Кафан		0.07	0.2	0.7	0.3	0.07				0.04			1.4
75	Каджаран (Охчи)		0.03	0.2	0.3	0.3	0.07	0.03		0.07				1.0
77	Мегри	0.03	0.2	0.2	0.4	0.3		0.03	0.06	0.03				1.2

Key: (40). Talin Verin. (41). Bazmaberd Verin. (42).

Koshabulakh. (43). Kama. (44). Aragats, railroad. (45). Yegvard.

(46). Ashtarak. (47). Yeratumber. (48). Shamiran. (50). Mazra.

(52). Yerevan, agricultural. (54). Echmiadzin. (55). Oktembryan.

(56). Yerevan. (57-57a). Martuni I, II. (58). Garni. (59).

Yanykh. (60). Artashat. (61). Chimankend. (62). Dzhermuk. (63).

Ararat. (64). Yekhegnadzor. (65). Gerger. (66). Arazdayan.

(67). Areni. (68). Bazarchay. (69). Martiros. (70). Sisian

pass. (71). Sisian. (72-72a). Goris I, II. (73). Khotanan Verin.

(74). Kafan. (75). Kadzharan (Okhchi). (77). Megri.

FOOTNOTE <sup>1</sup>. At the Artashat station during January 0.03 days with  
 hail.

2. At the Martiros station during January 0.03 days with hail.

ENDFOOTNOTE.

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TABLE 1a.

## GREATEST NUMBER OF DAYS WITH HAIL.

(a) # Станция	(b) Станция	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	(c) Год
1	Дебедашен (Ламбалу)			1	2	2	2	1	1	1			5
3	Кохб			1	2	2		1	1	1			4
4	Шнох			2	2	3	1	2	1	1			5
5	Калинино			5	8	8	4	4	3	1	2		19
6	Шурабад			1	6	6	6	5	2	2			18
7	Одзун (Узунлар)		1	3	4	5	2	2	2	2			13
9	Куйбышев			2	4	3	2	2	2	2			8
11	Степанаван		1	2	6	6	2	2	3	2	1		12
12	Качаган			1	6	3	1	2	3	1			9
13	Амасия			1	3	4	1	3	1				7
14	Пушкино			2	6	6	3	3	2	1			15
16, 16a	Берд I, II			1	3	4	1		1	1			5
17	Джаджур, ж. д.			2	3	4	4	2	2	2			10
19	Иджеван	1	1	1	4	4	2	1	2				8
20	Спитак			2	3	4	2	2	2	1			8
22	Кировакан		1	3	6	6	4	3	3	2	1		13
23	Ленинакан		1	4	6	6	3	3	4	2	1	1	18
24	Лермонтово		2	4	5	7	5	3	2	2			16
25	Дилижан		1	2	5	7	2	2	3	3			17
26	Семеновка		1	2	6	6	5	3	4	2			11
29	Артик			2	4	5	2	1	2	1			9
30	Апаран			3	7	6	4	2	5	2			13
31	Красносельск		1	1	7	8	4	1	2	2			12
32	Севан, озерная ГМО		1	3	5	6	4	2	4	2	1		14
33	Севан, ГМС		1	3	6	11	4	3	4	2			19
34	Гарновит			1	3	3	1	1	1				7
35	Раздан		2	3	4	4	3	2	2	2			11
36	Шоржа			1	4	2	2	2	1	1		1	6
37	Арагач, высокогорная			1	6	6	7	6	2	2			21
39	Фонтан	1	1	2	4	5	1	1	3	1	1		11
40	Талин Верин			3	3	4	2	2	1				9
41	Базмаберд Верин		2	6	3	4	2	2	2	1	1		13
42	Кошабулах		1	4	5	6	2	2	4	3	1		17

Key: (a). Station number. (b). Station. (c). Year. (1).

Debedashen (Lambalu). (3). Kokhb. (4). Shnokh. (5). Kalinino.

(6). Shurabad. (7). Odzun (Uzunlar). (9). Kuybyshev. (11).

Stepanavan. (12). Kachagan. (13). Amasiya. (14). Pushkin.

(16-16a). Berd I, II. (17). Dzhadzhur, railroad. (19). Idzhevan.

(20). Spitak. (22). Kirovakan. (23). Leninakan. (24).

Lermontov. (25). Dilizhan. (26). Semenovka. (29). Artik. (30).

Aparan. (31). Krasnosel'sk. (32). Lake Sevan GMO. (33). Sevan,

GMS. (34). Garnovit. (35). Razdan. (36). Shorzha. (37).

Aragats, high-mountain. (39). Fontan. (40). Talin Verin. (41).

Bazmaberd Verin. (42). Koshabulakh.



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## Continuation of Table 1a.

43	Камо			1	3	4	3	3	2	1		11
44	Арагац, ж. д.		1	4	3	4	1	3	1			9
45	Егвард	1	1	2	3	2	1	1	1	1		6
46	Аштарак		1	2	2	3	1	1	1			4
50	Маира			1	7	3	3	3	3	4	2	12
52	Ереван, агро		1	2	2	2	1		1	1		5
54	Эчмиадзин		1	4	2	3	1	1	1	1	1	6
55	Октемберян	1	1	2	3	3	1	1	1	1		7
56	Ереван	1	2	3	4	2	2	1	3	2	1	7
57, 57a	Мартуни I, II		1	1	5	4	2	2	2	2	1	9
58	Гарни	1	1	2	4	2	1	1	1	1		7
59	Яных		1	4	9	5	2	2	3	2		17
60	Арташат <sup>1</sup>	2	1	3	3	2	1	1	1	1	1	5
62	Джермук			6	6	5	3	2	3	3	1	16
64	Екегнадзор	1	2	2	2	2	1	1	1	2		6
65	Гергер	1	3	3	6	4	2	2	1	2	1	12
66	Араздаян		1	1	1	1			1			1
68	Базарчай		1	6	6	4	3	2	3	3	1	16
69	Мартирос <sup>2</sup>	1	4	6	5	4	2	3	3	3	1	12
70	Сиснанский перевал			4	6	5	4	1	2	2		15
71	Сиснан	1		2	4	3	1	1	2	2		7
72, 72a	Горис I, II		1	1	3	4	1	1	1	1		5
73	Хотанан Верин		1	1	3	1						4
74	Кафан		1	1	2	3	1				1	5
75	Каджаран (Охчи)		1	2	2	2	2	1		1		4
77	Мегри	1	1	2	3	2		1	1	1		3

Key: (43). Kama. (44). Aragats, railroad. (45). Yegvard. (46). Ashtarak. (50). Mazra. (52). Yerevan, agricultural. (54). Echmiadzin. (55). Oktemberyan. (56). Yerevan. (57-57a). Martuni I, II. (58). Garni. (59). Yanykh. (60). Artashat. (62). Dzhermuk. (64). Yekhegnadzor. (65). Gerger. (66). Arazdayan. (68). Bazarchay. (69). Martiros. (70). Sisian pass. (71). Sisian. (72-72a). Goris I, II. (73). Khotanan Verin. (74). Kafan. (75). Kadzharan (Okhchi). (77). Megri.

FOOTNOTE <sup>1</sup>. At the Artashat station during January 1 day with hail.

<sup>2</sup>. At the Martiros station during January 1 day with hail.

ENDFOOTNOTE.

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## ALPHABETICAL INDEX OF STATIONS.

## SECTION 1. Cloud cover.

(a) № станции	(b) Станция	(c) Высота (м)	(c1) Повторяемость ясно-го, полусunny и пасмурного состояния неба по общей и нижней облачности		(c2) Повторяемость ясно-го, полусunny и пасмурного состояния неба по общей облачности в различные часы суток	(c3) Повторяемость ясно-го, полусunny и пасмурного состояния неба по нижней облачности в различные часы суток	(c4) Число ясных и пасмурных дней по общей и нижней облачности		(c5) Средняя месячная и годовая общая и нижняя облачность		(c6) Средняя месячная и годовая общая облачность в различные часы суток		(c7) Средняя месячная и годовая нижняя облачность в различные часы суток		(c8) Повторяемость основных форм облаков. Повторяемость основных форм облаков в различные часы суток.	(c9) Повторяемость различных граваний нижней облачности при определенных градусах общей облачности
			общая	нижняя			общая	нижняя	общая	нижняя	общая	нижняя				
(f) Годы наблюдений																
21	Айгедзор (g)	742	1955—64				1955—64									
13	Амасия (h)	1876	1945—65	1951—65	1945—65		1945—65	1951—65	1945—65		1945—65					
28	Анкаван (i)	1957	1957—65	1957—64			1957—65	1957—64								
30	Апаран (j)	1891	1936—49, 58—65				1936—49, 58—65		1939—49, 58—65		1936—49, 58—65					
37	Арагац, высоко-горная (k)	3229	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—65	1936—60	
44	Арагац, ж. д. (l)	1254	1939—60				1939—60		1939—60		1939—60					
67	Арени (m)	1009	1949—60				1949—60									
60	Арташат (n)	829	1939—65	1951—60			1939—65	1951—60	1939—60							
29	Артик (o)	1750	1955—65				1955—65									
46	Аштарак (p)	1090	1959—65				1959—65									
68	Базарчай (q)	2031	1953—64				1953—64								1936—60 *	
16	Берд I (r)	934	1936—58	1936—58			1936—58	1936—58	1936—58	1936—58						
16a	Берд II (s)	934	1958—65				1958—65									
58	Гарни (t)	1422	1941—65	1943—60			1941—65	1943—60	1941—65	1943—60						
31	Гарновит (u)	2166	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65	1943—65		
72	Горис I (v)	1398	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53	1936—53		
72a	Горис II (w)	1398	1953—65				1953—65									
8	Гукасян Верин (x)	2009	1957—65				1957—65									
1	Дебедапен (Лам-балу) (y)	453	1953—65				1953—65									
17	Джаджур, ж. д. (z)	1792	1936—60	1936—60			1936—60	1936—60	1936—60	1936—60	1936—60	1936—60	1936—60	1936—60		
62	Джермук (y)	2066	1956—65	1956—65			1956—65	1956—65								

Note. An asterisk (\*) means that the data of the stations are in Tables 8 and 8a.

Key: (a). Station number. (b). Station. (c). Elevation (m).

(c1). Frequency of clear, semiclear and cloudy skies according to total and low cloud cover. (c2). Frequency of clear, semiclear and cloudy skies according to total cloud cover at different hours of the day. (c3). Frequency of clear, semiclear and cloudy skies according to low cloud cover at different hours of the day. (c4). Number of clear and cloudy days according to total and low cloud cover. (c5). Average monthly and annual total and low cloud cover. (c6). Average monthly and annual total cloud cover at different hours of the day.

(c7). Average monthly and annual low cloud cover at different hours of the day. (c8). Frequency of basic cloud types. (c8a). Frequency of basic cloud types at different hours of the day. (c9). Frequency of different gradations of low cloud cover with specific gradations of total cloud cover. (d). total. (e). low. (f). Years of observations. (g). Aygedzor. (h). Amasiya. (i). Ankavan. (j). Aparan. (k). Aragats, high-mountain. (l). Aragats, railroad. (m). Areni. (n). Artashat. (o). Artik. (p). Ashtarak. (q). Bazarchay. (r). Berd .... (s). Garni. (t). Garnovit. (u). Goris .... (v). Gukasyan Verin. (w). Debedashen (Lambalu). (x). Dzhadzhur, railroad. (y). Dzhermuk.

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## Continuation of Section 1.

[illegible]

Key: (a). Dzhrvezh. (b). Dilizhan. (c). Yegvard. (d). Yeratumber. (e). Yerevan, agricultural. (f). Yerevan. (g). Yerevan, GMO. (h). Yekhegnadzor. (i). Idzhevan. (j). Kalinino. (k). Kama. (l). Karakert (Karmrashen). (m). Kafan. (n). Kirovakan. (o). Kokhb. (p). Koshabulakh. (q). Krasnosel'sk. (r). Leninakan. (s). Lermontov. (t). Mazra. (u). Martuni .... (v). Martiros. (w). Megri. (x). Oktemberyan. (y). Razdan. (z). Sevan, GMS. (aa). Lake Sevan GMO. (bb). Sevkar. (cc). Semenovka. (dd). Sisian. (ee). Sisian pass. (ff). Spitak. (gg). Stepanavan. (hh). Talin Verin. (ii). Uzunlar.

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Continuation of Section 1.

(a) № станции	(b) Станция	(c) Высота (м)	(1) Повторяемость ясного, полужасного и пасмурного состояний неба по общей и нижней облачности		(2) Повторяемость ясного, полужасного и пасмурного состояний неба по общей облачности в различные часы суток		(4) Число ясных и пасмурных дней по общей и нижней облачности		(5) Средняя месячная и годовая общая и нижняя облачность		(6) Средняя месячная и годовая общая облачность в различные часы суток		(7) Средняя месячная и годовая нижняя облачность в различные часы суток		(8) Повторяемость основных форм облаков		(9) Повторяемость основных форм облаков в различные часы суток		
			общая	нижняя	общая	нижняя	общая	нижняя	общая	нижняя	общая	нижняя	общая	нижняя	общая	нижняя	общая	нижняя	
(f) Годы наблюдений																			
15	Узунтала (g)	505	1949—64	1955—64				1949—64	1955—64										
39	Фонтан (h)	1798	1941—65					1941—65				1941—65							
73	Хотанан Верин (i)	1406	1947—65	1947—65				1947—65	1947—65										
27	Цахкаовит (j)	2099	1957—64					1957—64											
61	Чиманкент (k)	1064	1949—65	1949—65				1949—65	1949—65										
48	Шамиран (l)	1157	1956—64	1956—64				1956—64	1956—64										
4	Шнох (m)	656	1936—65	1945—65	1936—65	1945—65	1936—65	1945—65	1936—65	1945—65	1936—65	1945—65	1936—65	1945—65					
36	Шоржа (n)	1914	1951—65	1952—65	1951—65	1952—65	1951—65	1952—65	1951—65	1952—65								1936—60 *	
6	Шурабад (o)	2004	1936—65					1936—65				1936—65							1936—60 *
59	Яных (p)	2334	1941—60	1941—60	1941—60			1941—60	1941—60	1941—65	1941—60	1941—65	1941—60	1941—65	1941—60				

Key: (a). Station number. (b). Station. (c). Elevation (m).  
 (c1). Frequency of clear, semiclear and cloudy skies according to total and low cloud cover. (c2). Frequency of clear, semiclear and cloudy skies according to total cloud cover at different hours of the day. (c3). Frequency of clear, semiclear and cloudy skies according to low cloud cover at different hours of the day. (c4). Number of clear and cloudy days according to total and low cloud cover. (c5). Average monthly and annual total and low cloud cover. (c6). Average monthly and annual total cloud cover at different hours of the day. (c7). Average monthly and annual low cloud cover at different hours of the day. (c8). Frequency of basic cloud types. (c8a). Frequency of basic cloud types at different hours of the day. (c9). Frequency of different gradations of low cloud cover with specific gradations of total cloud cover. (d). total. (e). low. (f). Years of observations. (g). Uzuntala. (h). Fontan. (i). Khotanan Verin. (j). Tsakhkaovit. (k). Chimankend. (l). Shamiran. (m). Shnokh.

(n). Shorzha. (o). Shurabad. (p). Yanykh.

Note. Asterisk (\*) means that data of stations are in Table 8 and 8a.

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## SECTION 2. FOG.

(a) № станции	(b) Станция	(c) Высота (м)	(c1) Среднее число дней с туманом	(c1a) Наибольшее число дней с туманом	(c2) Повторяемость раз- личного числа дней с туманом по месяцам (%) (c2a) Повторяемость раз- личного числа дней с туманом за год	(c3) Средняя продолжи- тельность туманов (часы). (c3a) Продолжительность туманов в различные время суток (часы)
(d) Годы наблюдений						
21	Айгедзор (e)	742	1947-64		1943-65	
13	Амасия (f)	1876	1943-65	1943-65	1943-65	
28	Анкаван (g)	1957	1957-65			
30	Апаран (h)	1891	1936-55	1936-55	1936-55	
37	Арагац, высокогорная (i)	3229	1936-60	1936-60	1936-60	
44	Арагац, ж. д. (j)	1254	1943-60			
63	Ариарат (k)	818	1949-65			
67	Арени (l)	1009	1949-65			
60	Арташат (m)	829	1936-65	1936-65	1936-65	
29	Артик (n)	1750	1945-65	1945-65	1945-65	
68	Базарчай (o)	2031	1936-60	1936-60	1936-60	
16	Берд I (p)	934	1936-58	1936-58	1936-58	
16a	Берд II (q)	717	1958-60	1958-60	1958-60	
58	Гарни (r)	1422	1943-60			
34	Гарновит (s)	2166	1936-43, 51-60			
72	Горис I (t)	1398	1936-53	1936-53	1936-53	
72a	Горис II (u)		1953-60	1953-60	1953-60	
8	Гукасян Верин (v)	2009	1957-65			
1	Дебедашен (Ламбалу) (w)	453	1953-65			
17	Джаджур, ж. д. (x)	1792	1936-60	1936-60	1936-60	
62	Джермук (y)	2066	1948-65			
25	Дилижан (z)	1256	1936-51, 57-60	1936-51, 57-60	1936-51, 57-60	
45	Егвард (aa)	1317	1936-60	1936-60	1936-60	
47	Ератумбер (ab)	3101	1958-65			
52	Ереван, агро (ac)	942	1955-65			
56	Ереван (ad)	910	1936-47, 57-65	1936-47, 57-65	1936-47, 57-65	
51	Ереван, ГМО (ae)	1113	1960-65			
64	Ехегнадзор (af)	1267	1952-64			
19	Иджеван (ag)	732	1936-48, 57-65	1936-48, 57-65	1936-48, 57-65	
5	Калинино (ah)	1507	1936-58	1936-58	1936-58	

Note. An asterisk (\*) means that the data are only located in Table 2.

Key: (a). Station number. (b). Station. (c). Elevation (m).

(c1). Average number of days with fog. (c1a). Greatest number of days with fog. (c2). Frequency of different number of days with fog according to month (%). (c2a). Frequency of different number of days with fog in a year. (c3). Average duration of fog (hours). (c3a). Duration of fog at different times of the day (hours). (d). Years of observations. (e). Aygedzor. (f). Amasiya. (g). Ankavan. (h). Aparan. (i). Aragats, high-mountain. (j). Aragats, railroad. (k). Ararat. (l). Areni. (m). Artashat. (n). Artik. (o). Bazarchay.

(p). Berd .... (q). Garni. (r). Garnovit. (s). Goris .... (t).  
Gukasyan Verin. (u). Debedashen (Lambalu). (v). Dzhadzhur,  
railroad. (w). Dzhermuk. (x). Dilizhan. (y). Yegvard. (z).  
Yeratumber. (aa). Yerevan, agricultural. (bb). Yerevan. (cc).  
Yerevan, GMO. (dd). Yekhegnadzor. (ee). Idzhevan. (ff).  
Kalinino.



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## Continuation of Section 2.

(a) № станции	(b) Станция	(c) Высота (м)	(c1.) Среднее число дней с туманом	(c1a) Наибольшее число дней с туманом	(c2.) Повторяемость различного числа дней с туманом по месяцам (%). (c2a.) Повторяемость различного числа дней с туманом за год	(c3.) Средняя продолжительность туманов (часы). (c3a.) Продолжительность туманов в различное время суток (часы)
(d) Годы наблюдений						
43	Камо (e)	1961	1939—54			1939—54
49	Каракерт (Кармрашен) (f)	1085	1955—65			
74	Кафан (g)	705	1936—60	1936—60	1936—60	1936—60
22	Кировакан (h)	1350	1936—60	1936—60	1936—60	1936—60
3	Кохб (i)	743	1936—62	1936—62	1936—62	
42	Косхабулах (j)	1890	1936—60	1936—60	1936—60	
31	Красносельск (k)	1861	1944—65	1944—65	1944—65	1944—65
23	Ленинакан (l)	1556	1938—60	1938—60	1938—60	1938—60
24	Лермонтово (m)	1798	1942—60	1942—60	1942—60*	
50	Мазра (n)	1940	1942—60			
57	Мартуни (o)	1945	1936—55	1936—55	1936—55	
57a	Мартуни II (p)	1945	1955—60	1955—60	1955—60	
69	Мартiros (q)	1957	1946—65	1946—65	1946—65	
77	Мегри (r)	627	1936—60	1936—60	1936—60	
7	Одзун (Узунлар) (s)	1127	1940—51, 55—61			
55	Октемберян (t)	861	1936—60	1936—60	1936—60	1936—60
35	Раздан (u)	1765	1941—60	1941—60	1941—60	1941—60
32	Севан, озерная ГМО (v)	1918	1940—60	1940—60	1940—60	
33	Севан, ГМС (v)	1936	1946—65	1946—65	1946—65	1946—65
10	Севкар (w)	925	1949—65			
26	Семеновка (x)	2104	1936—60	1936—60	1936—60	1936—60
70	Сисианский перевал (y)	2380	1950—65			
71	Сисиан (z)	1580	1936—60	1936—60	1936—60	
20	Спитак (aa)	1552	1936—59	1936—59	1936—59	
11	Степанаван (ab)	1397	1939—60	1939—60	1939—60	
40	Талин Верин (ac)	1582	1936—42, 51—60			
15	Узунтала (ad)	505	1949—64			
39	Фонтан (ae)	1798	1936—40, 44—60	1936—40, 44—60	1936—40, 44—60	
73	Хотаван Верин (af)	1406	1947—65	1947—65	1947—65	
61	Чиманкенд (ag)	1064	1940—65			
48	Шахиран (ah)	1157	1949—64			

Key: (a). Station number. (b). Station. (c). Elevation (m).

(c1). Average number of days with fog. (c1a). Greatest number of days with fog. (c2). Frequency of different number of days with fog according to month (%). (c2a). Frequency of different number of days with fog in a year. (c3). Average duration of fog (hours). (c3a). Duration of fog at different times of the day (hours). (d). Years of observations. (e). Kama. (f). Karakert (Karmrashen). (g). Kafan. (h). Kirovakan. (i). Kokhb. (j). Koshabulakh. (k). Krasnosel'sk. (l). Leninakan. (m). Lermontov. (n). Mazra. (o). Martuni .... (p). Martiros. (q). Megri. (r). Odzun (Uzunlar). (s). Oktemberyan. (t). Razdan. (u). Lake Sevan GMO. (v). Sevan,

GMS. (w). Sevkar. (x). Semenovka. (y). Sisian pass. (z).  
Sisian. (aa). Spitak. (bb). Stepanavan. (cc). Talin Verin.  
(dd). Uzuntala. (ee). Fontan. (ff). Khotanan Verin. (gg).  
Chimankend. (hh). Shamiran.

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## Continuation of Section 2.

2	Шахназар (a)	1573	1936-60	1936-60	1936-60 *
4	Шнох (b)	656	1944-65	1944-65	1944-65
36	Шоржа (c)	1914	1936-60	1936-60	1936-60
6	Шурабад (d)	2004	1936-53		
54	Эчмиадзин (e)	853	1936-42, 45-60	1936-42, 45-60	
59	Яных (f)	2334	1943-65	1943-65	1943-65

Key: (a). Shakhnazar. (b). Shnokh. (c). Shorzha. (d).

Shurabad. (e). Echmiadzin. (f). Yanykh.

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## SECTION 3. SNOW STORMS.

(a) № станции	(b) Станция	(c) Высота (м)	(c1) Среднее число дней с метелью	(c1a) Наибольшее число дней с метелью	(c2) Среднее число дней с поземком	(c3) Продолжитель- ность метелей (часы)	(c4) Устойчивость раз- личных направлений ветра при метелях (%) (c5) Устойчивость различных скоростей ветра при метелях (%) (c6) Устойчивость температуры воздуха в различных пределах при метелях (°)	(c7) Повторяемость различного числа дней с метелью за год (%)
(d) Годы наблюдений								
13	Амасия (e)	1876	1936-65	1936-65	1938-65			1936-65
30	Апаран (f)	1891	1936-65	1936-65	1936-65	1936-65		1936-65
37	Арагац, высоко- горная (g)	3229	1936-65	1936-65	1936-65	1936-60	1936-60	1936-65
44	Арагац, ж. д. (h)	1254	1939-65	1939-65	1939-65	1939-65		1939-65
60	Арташат (i)	829	1936-65	1936-65	1936-65			1936-65
29	Артик (j)	1750	1945-60					
68	Базарчай (k)	2031	1936-65	1936-65	1936-65			1936-65
58	Гарни (l)	1422	1936-50		1949-65			
34	Гарновит (m)	2166	1949-65					
72	Горис (n)	1398	1940-53	1940-53				1940-53
72a	Горис II (o)	1398	1953-65	1953-65				1953-65
8	Гукасян Верин (p)	2009	1956-65		1956-65			
17	Джаджур, ж. д. (r)	1792	1936-65	1936-65	1942-65	1936-65		1936-65
62	Джермук (s)	2066	1947-65	1947-65				1947-65
25	Дилижан (t)	1256	1936-65	1936-65				
45	Егвард (u)	1317	1936-65	1936-65	1936-65			1936-65
47	Ератумбер (v)	3101	1958-65		1958-65			
56	Ереван (w)	910	1936-65	1936-65	1936-65		1936-60	1936-65
64	Ехегнадзор (x)	1267	1936-65	1936-65	1936-65			1936-65
5	Калинино (y)	1507	1941-65	1941-65	1941-65	1941-65		1941-65
43	Камо (z)	1961	1936-65	1936-65	1936-65	1936-65		1936-65
22	Кировакан (aa)	1350	1936-65	1936-65	1936-65			
42	Кошабулах (ab)	1890	1936-65	1936-65	1936-65			1936-65
31	Красносельск (ac)	1861	1940-65	1940-65	1940-65	1940-65		1940-65
23	Ленинакан (ad)	1556	1936-65	1936-65	1936-65	1936-65	1936-60	1936-65
24	Лермонтово (ae)	1798	1941-58	1941-58	1941-58			
50	Мазра (af)	1940	1938-65	1938-65	1939-65			1938-65

Key: (a). Station number. (b). Station. (c). Elevation (m).  
(c1). Average number of days with a snow storm. (c1a). Greatest  
number of days with a snow storm. (c2). Average number of days with  
drifting snow. (c3). Duration of snow storms (hours). (c4).  
Frequency of different wind directions during snow storms (%). (c5).  
Frequency of different wind speeds during snow storms (%). (c6).  
Frequency of air temperature within different limits during snow  
storms (%). (c7). Frequency of different number of days with a snow  
storm in a year (%). (d). Years of observations. (e). Amasiya.  
(f). Aparan. (g). Aragats, high-mountain. (h). Aragats, railroad.  
(i). Artashat. (j). Artik. (k). Bazarchay. (l). Garni. (m).

Garnovit. (n). Goris .... (o). Gukasyan Verin. (p). Dzhadzhur,  
railroad. (q). Dzhermuk. (r). Dilizhan. (s). Yegvard. (t).  
Yeratumber. (u). Yerevan. (v). Yekhegnadzor. (w). Kalinino.  
(x). Kama. (y). Kirovakan. (z). Koshabulakh. (aa).  
Krasnosel'sk. (bb). Leninakan. (cc). Lermontov. (dd). Mazra.

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## Continuation of Section 3.

69	Мартирос (a)	1957	1936-65	1936-65	1936-65		1936-65
57	Мартуни (b)	1945	1936-65	1936-65	1936-65		1936-65
57a	Мартуни II (d)	1945	1955-65		1936-65		
57	Октемберян (c)	861	1936-65	1936-65			
35	Раздан (d)	1765	1936-65	1936-65	1936-65		1936-65
33	Севан, ГМС (e)	1936	1939-65	1939-65	1939-65	1939-60	1939-65
32	Севан, озерная ГМО (f)	1918	1940-65	1940-65	1940-65		1940-65
26	Семеновка (g)	2104	1942-65	1942-65	1942-65		1942-65
71	Сисиан (h)	1580	1939-65	1939-65	1939-65		1939-65
70	Сисианский переход (i)	2380	1950-65		1950-65		1936-60
20	Спитак (j)	1552	1936-60	1936-60	1936-60		
11	Степанаван (k)	1397	1941-65	1941-65	1941-65		1936-65
40	Талин Верин (l)	1582	1936-65	1936-65	1936-65		1936-65
39	Фонтан (m)	1798	1936-40, 1950-65	1936-40, 50-65	1950-65		1936-40, 50-65
73	Хотанан Верин (n)	1406			1947-65		
2	Шахназар (o)	1573	1936-62				1936-62
76	Шванидзор (p)	640	1936-62	1936-62			
36	Шоржа (q)	1914	1936-65	1936-65	1936-65		1936-65
6	Шурабад (r)	2004	1946-65	1946-65		1946-60	1946-60
59	Яныкх (s)	2334	1936-65	1936-65	1936-65	1936-60	1936-65

Key: (a). Martiros. (b). Martuni .... (c). Oktemberyan. (d). Razdan. (e). Sevan, GMS. (f). Lake Sevan GMS. (g). Semenovka. (h). Sisian. (i). Sisian pass. (j). Spitak. (k). Stepanavan. (l). Talin Verin. (m). Fontan. (n). Khotanan Verin. (o). Shakhnazar. (p). Shvanidzor. (q). Shorzha. (r). Shurabad. (s). Yanykh.

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## SECTION 4. THUNDERSTORMS.

(a) № станции	(b) Станция	(c) Высота (м)	(1) Среднее число дней с грозой	(1a) Наи- большее число дней с грозой	(2) Средняя продолжи- тельность гроз (часы)	(2a) Продол- жительность гроз в раз- личное время суток (часы)
(d) Годы наблюдений						
- 21	Айгедзор (e)	742	1949-64	1949-64		
13	Амасия (f)	1876	1941-65	1941-65		
28	Анкаван (g)	1957	1957-65			
30	Апаран (h)	1891	1939-65	1939-65	1939-60	1939-60
+ 37	Арагац, высокогорная (i)	3229	1936-65	1936-65		
44	Арагац, ж. д. (j)	1254	1940-65	1940-65	1940-60	1940-60
- 63	Арагат (k)	818	1953-65			
67	Арени (l)	1009	1949-60			
- 60	Арташат (m)	829	1936-65	1936-65	1936-60	1936-60
29	Артик (n)	1750	1944-65	1944-65		
46	Аштарак (o)	1090	1936-42, 56-65	1936-42, 56-65		
+ 68	Базарчай (p)	2031	1939-64	1939-64		
- 16	Берд I (q)	934	1936-58	1936-58		
- 16a	Берд II (r)	717	1958-65	1958-65		
58	Гарни (s)	1422	1942-65	1942-65		
+ 34	Гарновит (t)	2166	1943-65	1943-65		
72	Горис I (u)	1398	1936, 39-53	1936, 39-53	1936, 39-53	1936, 39-53
72a	Горис II (v)	1398	1953-65	1953-60	1953-60	1953-60
+ 8	Гукасян Верин (w)	2009	1957-65			
- 1	Дебедашен (Ламбалу) (x)	453	1940-48, 53-60	1940-48, 53-60		
17	Джаджур, ж. д. (y)	1792	1942-65	1942-65		
+ 62	Джермук (z)	2066	1947-65	1947-65		
25	Дилижан (aa)	1256	1943-65	1943-65	1943-60	1943-60
45	Егвард (ab)	1317	1946-65	1946-65		
+ 47	Ератумбер (ac)	3101	1958-65	1958-65		
51	Ереван, ГМО (ad)	1113	1954-60			
- 52	Ереван, агро (ae)	942	1938-40, 46-65	1938-40, 46-65		
- 56	Ереван (af)	910	1936-65	1936-65	1936-60	1936-60
64	Ехегнадзор (ag)	1267	1942-64	1942-60	1942-60	1942-60
- 19	Иджеван (ah)	732	1936-53	1936-53		
5	Калинин (ai)	1507	1936-65	1936-65	1936-60	1936-60
43	Камо (aj)	1961	1936-55	1936-55	1936-55	
- 74	Кафан (ak)	705	1939-60	1939-60		
22	Кировакан (al)	1350	1939-64	1939-64	1939-60	1939-60
- 3	Кохб (am)	743	1942-60	1942-60		
42	Кошабулах (an)	1890	1936-65	1936-65		
31	Красносельск (ao)	1861	1939-65	1939-65	1939-60	1939-60
23	Ленинакан (ap)	1556	1936-64	1936-64	1936-60	1936-60
24	Лермонтово (aq)	1798	1936-65	1936-65		
50	Мазра (ar)	1940	1938-65	1938-65	1938-60	1938-60
57	Мартуни I (as)	1945	1939-55	1939-55		
57a	Мартуни II (at)	1945	1955-65	1955-65		
69	Мартирос (au)	1957	1936-65	1936-65		
- 77	Мегри (av)	627	1936-38, 43-65	1936-38, 43-65	1936-38, 43-60	1936-38, 43-60
7	Одзун (Узунлар) (aw)	1127	1940-65	1940-65		
- 55	Октемберян (ax)	861	1944-65	1944-65		
35	Раздан (ay)	1765	1936-65	1936-65		
32	Севан, озерная ГМО (az)	1918	1939-65	1939-65		
33	Севан, ГМС (ba)	1936	1938-65	1938-65	1938-60	1938-60
- 10	Севкар (bb)	925	1949-65	1949-65		
+ 26	Семеновка (bc)	2104	1943-58	1943-58		
+ 70	Сисианский перевал (bd)	2380	1950-65	1950-65		

Key: (a). Station number. (b). Station. (c). Elevation (m).  
(cl). Average number of days with a thunderstorm. (cla). Greatest number of days with a thunderstorm. (c2). Average duration of thunderstorms (hours). (c2a). Duration of thunderstorms at different times of day (hours). (d). Years of observations. (e). Aygedzor. (f). Amasiya. (g). Ankavan. (h). Aparan. (i). Aragats, high-mountain. (j). Aragats, railroad. (k). Ararat. (l). Areni. (m). Artashat. (n). Artik. (o). Ashtarak. (p). Bazarchay. (q). Berd .... (r). Garni. (s). Garnovit. (t). Goris .... (u). Gukasyan Verin. (v). Debedashen (Lambalu). (w). Dzhadzhur, railroad. (x). Dzhermuk. (y). Dilizhan. (z). Yegvard. (1a). Yeratumber. (1b). Yerevan, GMO. (1c). Yerevan, agricultural. (1d). Yerevan. (1e). Yekhegnadzor. (1f). Idzhevan. (1g). Kalinino. (1h). Kama. (1i). Kafan. (1j). Kirovakan. (1k). Kokhb. (1l). Koshabulakh. (1m). Krasnosel'sk. (1n). Leninakan. (1o). Lermontov. (1p). Mazra. (1q). Martuni .... (1r). Martiros. (1s). Megri. (1t). Odzun (Uzunlar). (1u). Oktemberyan. (1v). Razdan. (1w). Lake Sevan GMO. (1x). Sevan, GMS. (1y). Sevkar. (1z). Semenovka. (2a). Sisian pass.



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## Continuation of Section 4.

(a) № станции	(b) Станция	(c) Высота (м)	(1.) Среднее число дней с грозой	(1a) Наи- большее число дней с грозой	(2.) Средняя продолжи- тельность гроз (часы)	(2a) Продол- жительность гроз в раз- личное время суток (часы)
(d) Годы наблюдений						
71	Сисиак (e)	1580	1939—65	1939—65		
20	Спитак (f)	1552	1936—43, 47—65	1936—43, 47—65	1937—43, 47—60	
11	Степанаван (g)	1397	1941—43, 47—65	1941—43, 47—65		
40	Талин Верин (h)	1582	1944—65	1944—65		
- 15	Узунтала (i)	505	1950—64	1950—64		
39	Фонтан (j)	1798	1936—65	1936—65		
73	Хотанан Верин (k)	1406	1950—65	1950—65		
61	Чиманкенд (l)	1064	1950—65	1950—65		
48	Шамиран (m)	1157	1949—64	1949—64		
2	Шахназар (n)	1573	1936—65	1936—65		
- 4	Шнох (o)	656	1936—65	1936—65		
36	Шоржа (p)	1914	1941—65	1941—65		
+ 6	Шурабад (q)	2004	1938—65	1938—65		
- 54	Эчмиадзин (r)	853	1939—42, 51—63	1939—42, 51—63		
+ 59	Яных (s)	2334	1938—65	1938—65		

Key: (a). Station number. (b). Station. (c). Elevation (m).

(cl). Average number of days with a thunderstorm. (cla). Greatest number of days with a thunderstorm. (c2). Average duration of thunderstorms (hours). (c2a). Duration of thunderstorms at different times of day (hours). (d). Years of observations. (e). Sisian.

(f). Spitak. (g). Stepanavan. (h). Talin Verin. (i). Uzuntala.

(j). Fontan. (k). Khotanan Verin. (l). Chimankend. (m).

Shamiran. (n). Shakhnazar. (o). Shnokh. (p). Shorzha. (q).

Shurabad. (r). Echmiadzin. (s). Yanykh.

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## SECTION 5. HAIL.

(a) № станции	(b) Станция	(c) Высота (м)	(e1.) Среднее число дней с градом	(e1a.) Наибольшее число дней с градом
(d) Годы наблюдений				
13	Амасия (e)	1876	1930—33, 50—65	1930—33, 50—65
30	Апаран (ff)	1891	1935—55	1935—55
37	Арагац, высокогорная (g)	3229	1941—65	1941—65
44	Арагац, ж. д. (h)	1254	1905—16, 32—65	1905—16, 32—65
63	Арарат (i)	818	1949—65	
66	Араздаян (j)	802	1943—65	1943—65
67	Аренн (k)	1009	1949—65	
60	Артшат (l)	829	1929—65	1929—65
29	Артик (m)	1750	1941—65	1941—65
46	Аштарак (n)	1090	1904—08, 30—65	1904—08, 30—65
68	Базарчай (o)	2031	1934—64	1934—64
41	Базмаберд Верин (p)	1895	1931—65	1931—65
16	Берд I (q)	934	1935—58	1935—58
16a	Берд II (r)	717	1958—65	1958—65
58	Гарни (s)	1422	1929, 31—65	1929, 31—65
34	Гарновит (t)	2166	1943—65	1943—65
65	Гергер (u)	1673	1934—59	1934—59
72	Горис I (v)	1398	1914—16, 26—41	1914—16, 26—41
72a	Горис II (w)	1398	1954—65	1954—65
1	Дебедашен (Ламбалу) (x)	453	1933—50, 53—65	1933—50, 53—65
17	Джаджур, ж. д. (y)	1792	1929—60	1929—60
62	Джермук (z)	2066	1947—65	1947—65
25	Дилижан (aa)	1256	1924—65	1924—65
45	Егвард (ab)	1317	1931—65	1931—65
47	Ератумбер (ac)	3101	1958—65	
52	Ереван, агро (ad)	942	1938—65	1938—65
56	Ереван (ae)	910	1891—1918, 20—50, 51—65	1891—1918, 20—50, 51—65
64	Ехегнадзор (af)	1267	1942—64	1942—64
19	Иджеван (ag)	732	1914—17, 27—56	1914—17, 27—56
75	Каджаран (Охчи) (ah)	1980	1936—65	1936—65
5	Калинино (ai)	1507	1914—17, 31—65	1914—17, 31—65
43	Камо (aj)	1961	1891—95, 1902—14, 1924—65	1891—95, 1902—14, 1924—65
74	Кафан (ak)	705	1939—65	1939—65
12	Качаган (al)	1230	1927—65	1927—65
22	Кировакан (am)	1350	1922—64	1922—64
3	Кохб (an)	743	1941—65	1941—65
42	Кошабулах (ao)	1890	1928—65	1928—65
31	Красносельск (ap)	1861	1929—65	1929—65
9	Куйбышев (aq)	1547	1927—65	1927—65
23	Ленинакан (ar)	1556	1898, 1900—07, 10—17, 22—65	1898, 1900—07, 10—17, 22—65
24	Лермонтово (as)	1798	1895—1915, 35—65	1895—1915, 35—65
50	Мазра (at)	1940	1938—65	1938—65
57	Мартуни I (au)	1945	1926—55	1926—55
57a	Мартуни II (av)	1945	1955—65	1955—65
69	Мартирос (aw)	1957	1933—65	1933—65
77	Мегри (ax)	627	1931—65	1931—65
7	Одзун (Узунлар) (ay)	1127	1933—62	1933—62
55	Октемберян (az)	861	1929—65	1929—65
14	Пушкино (ba)	1522	1927—65	1927—65
35	Раздан (bb)	1765	1927—65	1927—65
32	Севан, озерная ГМО (bc)	1918	1927—65	1927—65
33	Севан, ГМС (bd)	1936	1895—1917, 26—65	1895—1917, 26—65
10	Севкар (be)	925	1949—65	
26	Семеновка (bf)	2104	1926—65	1926—65
70	Сиснанский перевал (bg)	2380	1950—65	1950—65
71	Сиснан (bh)	1580	1939—65	1939—65

Key: (a). Station number. (b). Station. (c). Elevation (m).  
(cl). Average number of days with hail. (cla). Greatest number of  
days with hail. (d). Years of observations. (e). Amasiya. (f).  
Aparan. (g). Aragats, high-mountain. (h). Aragats, railroad. (i).  
Ararat. (j). Arazdayan. (k). Areni. (l). Artashat. (m). Artik.  
(n). Ashtarak. (o). Bazarchay. (p). Bazmaberde Verin. (q). Berd  
.... (r). Garni. (s). Garnovit. (t). Gerger. (u). Goris ....  
(v). Debedashen (Lambalu). (w). Dzhadzhur, railroad. (x).  
Dzhermuk. (y). Dilizhan. (z). Yegvard. (la). Yeratumber. (lb).  
Yerevan, agricultural. (lc). Yerevan. (ld). Yekhegnadzor. (le).  
Idzhevan. (lf). Kadzharan (Okhchi). (lg). Kalinino. (lh). Kama.  
(li). Kafan. (lj). Kachagan. (lk). Kirovakan. (ll). Kokhb.  
(lm). Koshabulakh. (ln). Krasnosel'sk. (lo). Kuybyshev. (lp).  
Leninakan. (lq). Lermontov. (lr). Mazra. (ls). Martuni ....  
(lt). Martiros. (lu). Megri. (lv). Odzun (Uzunlar). (lw).  
Oktemberyan. (lx). Pushkin. (ly). Razdan. (lz). Lake Sevan GMS.  
(2a). Sevan, GMS. (2b). Sevkar. (2c). Semenovka. (2d). Sisian  
pass. (2e). Sisian.

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## Continuation of Section 5.

(a) # Станция	(b) Станция	(c) Высота (м)	(c 1.) Среднее число дней с градом	(c1a.) Наибольшее число дней с градом
(d) Годы наблюдений				
20	Спитак (e)	1552	1930—65	1930—65
11	Степанаван (f)	1397	1931—65	1931—65
40	Талин Верин (g)	1582	1931—40, 55—65	1931—40, 55—65
15	Узунтала (h)	505	1949—64	
39	Фонтан (i)	1798	1894—1904, 10—17, 35—65	1894—1904, 10—17, 35—65
73	Хотанан Верин (j)	1406	1947—65	1947—65
61	Чиманкенд (k)	1064	1949—65	
48	Шамиран (l)	1157	1949—64	
2	Шахназар (m)	1573	1930—41	
4	Шнох (n)	656	1934—41, 43—65	1934—41, 43—65
36	Шоржа (o)	1914	1927—65	1927—65
6	Шурабад (p)	2004	1936—65	1936—65
54	Эчмиадзин (q)	853	1925—65	1925—65
59	Яных (r)	2334	1929—65	1929—65

Key: (a). Station number. (b). Station. (c). Elevation (m).  
 (c1). Average number of days with hail. (c1a). Greatest number of  
 days with hail. (d). Years of observations. (e). Spitak. (f).  
 Stepanavan. (g). Talin Verin. (h). Uzuntala. (i). Fontan. (j).  
 Khotanan Verin. (k). Chimankend. (l). Shamiran. (m). Shakhnazar.  
 (n). Shnokh. (o). Shorzha. (p). Shurabad. (q). Echmiadzin.  
 (r). Yanykh.

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## LIST OF METEOROLOGICAL STATIONS AND POSTS.

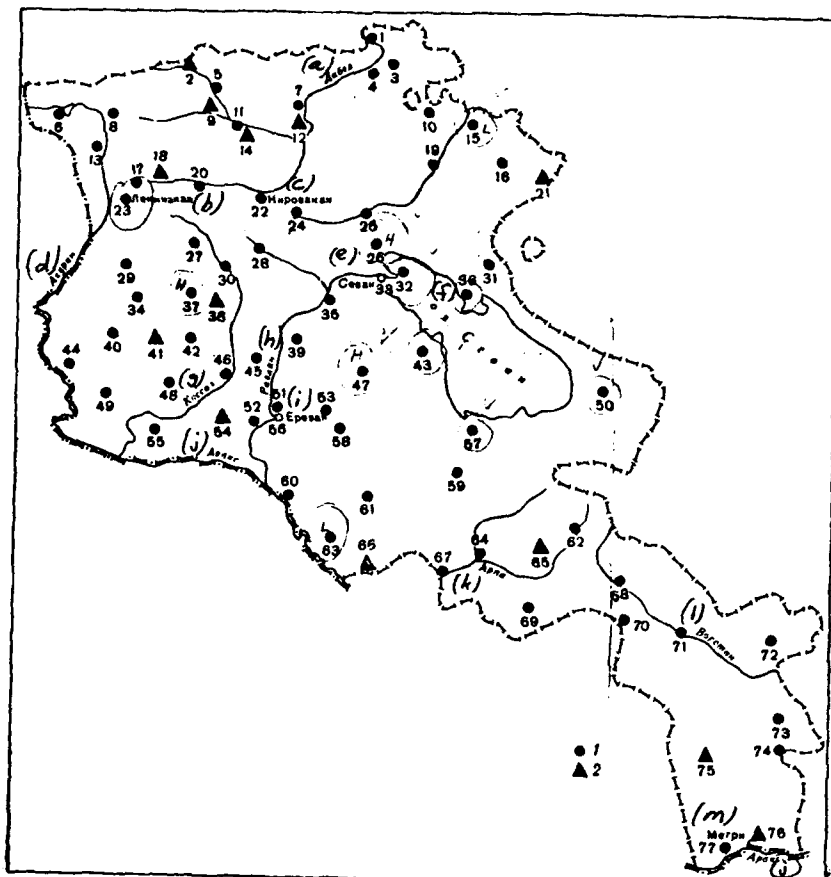
- |                          |                          |
|--------------------------|--------------------------|
| 1. Дебедашен (Ламбалу)   | 40. Талин Верин          |
| 2. Шахназар              | 41. Базмаберд Верин      |
| 3. Кохб                  | 42. Кошабулах            |
| 4. Шнох                  | 43. Камо                 |
| 5. Калинин               | 44. Арагац, ж. д.        |
| 6. Шурабад               | 45. Егвард               |
| 7. Одзун (Узунлар)       | 46. Аштарак              |
| 8. Гукасян Верин         | 47. Ератумбер            |
| 9. Куйбышев              | 48. Шамиран              |
| 10. Севкар               | 49. Каракерт (Кармрашен) |
| 11. Степанаван           | 50. Мазра                |
| 12. Качаган              | 51. Ереван, ГМО          |
| 13. Амасия               | 52. Ереван, агро         |
| 14. Пушкино              | 53. Джрвеж               |
| 15. Узунтали             | 54. Эчмиадзин            |
| 16. Берд I               | 55. Октемберян           |
| 16a. Берд II             | 56. Ереван               |
| 17. Джаджур, ж. д.       | 57. Мартуни I            |
| 18. Лусахпюр             | 57a. Мартуни II          |
| 19. Иджеван              | 58. Гарни                |
| 20. Спитак               | 59. Яных                 |
| 21. Айгедзор             | 60. Арташат              |
| 22. Кировакан            | 61. Чиманкенд            |
| 23. Ленинан              | 62. Джермук              |
| 24. Лермонтово           | 63. Арарат               |
| 25. Дилижан              | 64. Ехегнадзор           |
| 26. Семеновка            | 65. Гергер               |
| 27. Цахкаовит            | 66. Араздаян             |
| 28. Анкаван              | 67. Арени                |
| 29. Артик                | 68. Базарчай             |
| 30. Апаран               | 69. Мартирос             |
| 31. Красносельск         | 70. Сисианский перевал   |
| 32. Севан, озерная ГМО   | 71. Сисиан               |
| 33. Севан, ГМС           | 72. Горис I              |
| 34. Гарновит             | 72a. Горис II            |
| 35. Раздан               | 73. Хотатан Верин        |
| 36. Шоржа                | 74. Кафан                |
| 37. Арагац, высокогорная | 75. Каджаран (Охчи)      |
| 38. Арагац (Казнафар)    | 76. Шванидзор            |
| 39. Фонтан               | 77. Мегри                |

Key: (1). Debedashen (Lambalu). (2). Shakhnazar. (3). Kokhb.  
(4). Shnokh. (5). Kalinino. (6). Shurabad. (7). Odzun  
(Uzunlar). (8). Gukasyan Verin. (9). Kuybyshev. (10). Sevkar.  
(11). Stepanavan. (12). Kachagan. (13). Amasiya. (14). Pushkin.  
(15). Uzuntala. (16). Berd I. (16a). Berd II. (17). Dzhadzhur,  
railroad. (18). Lusakhpyur. (19). Idzhevan. (20). Spitak. (21).  
Aygedzor. (22). Kirovakan. (23). Leninakan. (24). Lermontov.  
(25). Dilizhan. (26). Semenovka. (27). Tsakhkaovit. (28).

Ankavan. (29). Artik. (30). Aparan. (31). Krasnosel'sk. (32).  
Lake Sevan GMO. (33). Sevan, GMS. (34). Garnovit. (35). Razdan.  
(36). Shorzha. (37). Aragats, high-mountain. (38). Aragats  
(Kaznafar). (39). Fontan. (40). Talin Verin. (41). Bazmaberd  
Verin. (42). Koshabulakh. (43). Kama. (44). Aragats, railroad.  
(45). Yegvard. (46). Ashtarak. (47). Yeratumber. (48).  
Shamiran. (49). Karakert (Karmrashen). (50). Mazra. (51).  
Yerevan, GMO. (52). Yerevan, agricultural. (53). Dzhrvezh. (54).  
Echmiadzin. (55). Oktemberyan. (56). Yerevan. (57). Martuni I.  
(57a). Martuni II. (58). Garni. (59). Yanykh. (60). Artashat.  
(61). Chimankend. (62). Dzhermuk. (63). Ararat. (64).  
Yekhegnadzor. (65). Gerger. (66). Arazdayan. (67). Areni. (68).  
Bazarchay. (69). Martiros. (70). Sisian pass. (71). Sisian.  
(72). Goris I. (72a). Goris II. (73). Khotanan Verin. (74).  
Kafan. (75). Kadzharan (Okhchi). (76). Shvanidzor. (77). Megri.

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## MAP OF THE NETWORK OF METEOROLOGICAL STATIONS AND POSTS.



1 - stations, 2 - posts.

Key: (a). Dabed. (b). Leninakan. (c). Kirovakan. (d).

Akhuryan. (e). Sevan. (f). Lake Sevan. (g). Kassakh. (h).

Razdan. (i). Yerevan. (j). Araks. (k). Arpa. (l). Vorotan.

→ (m). Megri.

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No Typing.